

Hazardous Materials Tracking System

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Hazardous Materials Tracking System

Final Report

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Foreword

This project was performed under the auspices of the National Shipbuilding Research Program with the direction of the SNAME Panel SP-1. This report is the result of a year-long study of the methods, design and programming for a generalized shipyard hazardous materials tracking system. The approach was to use the most modern, flexible and powerful software/hardware tools available--IBM PC network environment with the associated software database products.

We would like to express our thanks to Lyn Haumschilt and T. Michael Chee of the National Steel and Shipbuilding Company (NASSCO) in San Diego for their continued support and encouragement; to Don Johnston and Gary Higgins of Peterson Builders, Inc. (PBI) in Sturgeon Bay, Wisconsin and all the other shipyards that provided the details of shipyard operation. One of the appendices lists the numerous companies and individuals who without their help this project would not have been a success.

Executive Summary

In the 1970s and 1980s, the shipbuilding industry lost some of its competitive edge to overseas shipbuilding and repair operations. Several things can be done to restore the industry to its proper place in the world market. One way is to be smarter in utilizing computers. Most shipyards now possess the hardware and software but have only begun to use these resources to solve problems in the production arena. Computers no longer need to be restricted to offices; they can now become an integral part of the shop floor supervision and management tasks.

This report details the development of the Hazardous Materials Tracking System (HMTS). Other possible enhancements or additional modules (e.g. advanced labeling systems, MSDS scanning modules, live shipyard installation) are suggested, and a summary of these enhancements is detailed in the conclusion.

A major reason for the increased attention on hazardous chemical tracking was the passage of the Superfund Amendments and Reauthorization Act (SARA) and its predecessor, the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Shipyards quickly became targeted by local environmental groups because of their location to scenic harbors and the potential for environmental damage to these areas from daily hazardous materials use. The level of detail now required for reporting the quantities and locations of hazardous materials to local, state and federal agencies requires nothing short of a computer system with modem software and hardware tools.

This report details the development process: hardware environment, database tools, chemical database selection, bar code scanner, printer selection, database design, program development/debugging and user interface.

A complete user's manual is included as one of the appendices. This manual includes installation, operation and maintenance. HMTS can run either as a single or multi-user PC compatible network application.

Table Of Contents

Foreword	i
Executive Summary	iii
Approach	1
Shipyard Visits	1
Reporting Requirements	1
Computer Hardware Requirements	1
HMTS Components	3
Database Selection	3
Bar Code Symbolology	4
Bar Code Scanner	5
Bar Code Printer	7
Bar Code Labels	7
Chemical Database	8
Consultants' Review	11
Database Design	13
IDEF Models	15
ERA Design Notes	17
Proposed HMTS Model	19
System Calculations	21
User Interface	23
Screen Layouts	23
Screen Graphics	23
Keyboard Layout/SystemHelp...	24
Ten-Day Test Period	25
Conclusions	63
Bibliography	65

Appendix A: Hardware and Software Requirements	67
Appendix B: Acknowledgements	69
Appendix C: IDEF Diagrams	71
Appendix D: HMTS User's Manual	77
Appendix E TEAM-UP Specifics	133
Appendix F: CA AB2588 Chemicals	211
Appendix G: TEAM-UP Reference Manual.. . . .	213

Before any computer programming was done, several other major tasks had to be completed. These preliminary tasks included: shipyard visits; determination of hazardous material regulation and reporting requirements for the shipyard environment; choosing computer hardware and software; choosing bar code scanning and printing hardware/software; and selection of database design.

Shipyard Visits

Two shipyards were visited: Peterson Builders, Inc. in Sturgeon Bay, Wisconsin and NASSCO in San Diego, California. They provided an understanding of the major operations and components of typical shipyard environmental practices. Time and budget restrictions prevented visits to any other shipyards. However, it is felt that these two yard visits, along with the feedback from presentations at panel meetings, gave us enough information to design a fully SARA-compliant Hazardous Materials Tracking System. Discussions with environmental managers at other shipyards and feedback from demonstration diskettes helped make up the difference. In addition, visits to local non-shipyard industries gave us more insight into the handling and tracking of hazardous materials. An attempt was made to focus on those companies that made use of technologies which would be explored during the research project.

Reporting Requirements

The starting point for all tracking and reporting is SARA Title III, Section 312 requires reporting of daily averages, quantity on hand and location of hazardous materials. One of the options within HMTS produces a report that supports Tier II reporting. Reports from HMTS that are used internally (e.g. chemical quantity by location, products containing a specified chemical) are also detailed enough to satisfy most current local and state reporting requirements. The new states list of regulated chemicals can be added without major programming changes as the HMTS system is flexible.

Computer Hardware Requirements

Even though HMTS was designed with an IBM PC-based network in mind, it is generic enough to be used with a relational database system on virtually any hardware platform. Because the PC-operating environment is flexible and the shipyard industry needs to be on the leading edge of technology, the decision was made to design and test HMTS with a relational database that was supported by an industry standard network environment.

Consideration was given to other hardware platforms, e.g. minicomputers and mainframes. However, while most shipyard environmental departments have access to these systems, the computer system in many cases is less flexible than a PC system. Therefore, to use an existing computer system might be cost prohibitive. Using PCs not only offloads the computing demands from the mini or mainframe, but response time is dramatically

improved. Shipyards that have a number of PCs already placed throughout the yard can inexpensively connect the machines in a network. While a 386-based PC is recommended for using HMTS effectively, an 8088-based PC “clone” with 640K and monochrome monitor with graphics capability will be able to use HMTS with minimal delays in response time. **TEAM-UP** is not dependent on a particular processor and thus the more processing power, the more efficient the system will be.

Various hardware and software tools were considered from several viewpoints: cost, maintenance, performance, integration with other software and hardware and user interface.

Database Selection

Many database packages were screened for their ability to meet the critical requirements of HMTS. After the general review, the choices were narrowed to four PC-based database products: Oracle, Clarion, DBase IV and TEAM-UP. Because of the complexity of the project, speed of data retrieval was not the only criterion used to select the database product. Other important criteria included: end user interface, technical support, cost per additional network user and programmer tools. Another important consideration was how well the database package documented the tables, screens and variable definitions, so that any conversion to another database package or hardware platform would go as smoothly as possible. In addition, the database definition language would ideally accept the HMTS database definition (IDEF and ERA defined data structures described in later sections) with little or no change.

Oracle

Oracle is a very powerful, fully relational database product that runs on virtually every hardware platform, from micro to mainframe. Unfortunately, Oracle consumes huge resources and has performance problems on anything but a high-end machine with at least four megabytes of memory; most shipyards will not have this class of machine throughout the yard. The licensing per PC/workstation was also prohibitively expensive compared to the other products considered. The best use for Oracle was either developing an application on a PC and then moving it to another hardware platform or putting a limited set of tools on a PC and locating the database and most of the database access routines on the mainframe. For a shipyard, this would not be a cost-effective or efficient solution. Making the system fast and self-sufficient on a PC network using a number of PCs with wide-ranging hardware configurations would preclude using Oracle. The relational database design of HMTS, however, would make it easier to implement on a network or multi-user system that already has Oracle.

Dbase IV

The latest versions of Dbase IV from Ashton-Tate have been plagued with bugs and serious multi-user and access time problems. Multi-user licensing is also expensive. Other Dbase “compatible” systems (e.g. FoxBase/Pro, Clipper) are moving away from the Dbase “standard”. For these reasons it was felt that a Dbase solution would not be acceptable for HMTS development.

Clarion

The runtime .EXE modules from Clarion incur no licensing costs per additional user. Screen design time is short but debugging becomes a significant problem except for the most experienced programmer. Clarion user groups meet on a regular basis in every major metropolitan area, providing help and ideas directly from other users that may be having the same problems. Clarion is supported by a developer's newsletter, a technical bulletin newsletter, two bulletin board systems and an independent technical journal. Unfortunately, Clarion remains plagued by bugs and thus data integrity may suffer.

TEAM-UP

Programs developed with TEAM-UP run in very little memory (140K Ram). The distributing process technique used by TEAM-UP makes most operations perform very fast. TEAM-UP comes with many built-in searches that are user friendly and fast. TEAM-UP has a full security system and an excellent audit trail process. Conversion from single-user to multi-user is effortless.

Although runtimes are nearly one-third of the full TEAM-UP system cost, the fast searching, security, TEAM-UP's proven multi-user track record, flexible procedural language, lack of system bugs, immediate technical support and ease of use, make TEAM-UP the best database choice. In HMTS, TEAM-UP acts as the core software which maintains all data applications, generates all required HMTS reports and integrates with all purchased software modules.

Bar Code Symbolology

Several popular bar code formats were considered for HMTS: Code 39, Code 93/128, Interleaved 2 of 5, Code 49 and UPC/EAN.

Code 39 (Code 3 of 9) has very widespread acceptance and is the standard in a number of industries (e.g. defense, health and automotive). It is self-checking and can be used with a check character for additional data integrity.

Codes 93 and 128 are high density, space-efficient alternatives to Code 39. Both contain required one- or two-check characters for data integrity. Code 128 has three different "character sets", one of which allows "double density" numeric data, effectively putting twice as much numeric information in the same amount of space.

Interleaved 2 of 5 is a numeric-only code used mainly in the distribution industry. The fowl-length 2 of 5 readers and the "bearer bars" (to prevent partial scans) make this an accurate but restrictive symbology.

Code 49 is a relatively new, high density, multi-row code. The advantages are extremely high data security and a “footprint” that makes it easy to use in very small areas that do not have the room for a long, single-row code.

UPC comes in several different versions. The most popular is version A, which encodes 11 digits into a single symbol. Version E is a physically small symbol (6 digits instead of 11) used in situations where an 11-digit symbol would take up too much room. The main application of UPC is in the retail industry, starting with grocery stores and spreading to all retail merchandisers.¹

The wide popularity of Code 39 and its presence in the defense industry made this the best choice for HMTS. Other symbologies have a higher density or slightly more flexibility. If there is a specific need for a particular coding system in a specific shipyard or application, HMTS can be easily modified to accommodate these changes. In addition, most bar code readers are equipped to automatically detect and decode a number of different formats.

Consequently, the bar codes used to identify hazardous chemical containers in HMTS make use of the Code 39.

Bar Code Scanner

The bar coding industry is a rather mature field (the earliest patents and techniques were developed in the early 1960s); there are literally thousands of bar code scanners on the market. The goals in choosing a scanner included the following criteria: ability to detect a number of different symbologies, adaptability to different hardware devices, programmability, portability, technical support and upgradability.

Since the intended hardware platform is an IBM PC or PC network, the first consideration was to investigate bar code scanners that were designed to be used with IBM PCs. The ideal scanner would also have numerous software modules and stand-alone programs available that would make the scanner easy to use with a number of PC-based programs and languages.

Another consideration was the type of scanner (“input device”) used to read the bar code: hand held or fixed, fixed or moving beam, contact or non-contact and portable or fixed location. Ideally, the “decoder” portion of the bar code reader would be flexible enough to accept a number of different input devices.

The Tricoder model T50 from Worthington Data Solutions was chosen for the development of HMTS (see Figure 1). The particular model chosen has a medium-resolution contact wand, is portable and its associated software modules are well under \$1,000. While no single bar code reader will be suitable for every application, the WDS Tricoder was found to be a good solution for a number of different environments. The Tricoder can selectively read a number of different symbologies (e.g. Code 39, Code 128, 12 of 5, Codabar, UPC/EAN). The recognition for each symbology can be selectively enabled or disabled to

¹INTERMEC Corporation, An Introduction to Bar Code Symbology, Lynnwood, Washington, 1989, pp. 4-6.

further enhance accuracy. The RS-232 serial connection can be attached to the serial port on a PC or any device with a standard RS-232 port. The Tricoder has a powerful programming language. The user can be prompted for items, quantities and locations. Different types of wands can be easily substituted for the wand included with the device (laser, low/medium visible light, high resolution infrared, mag stripe reader).

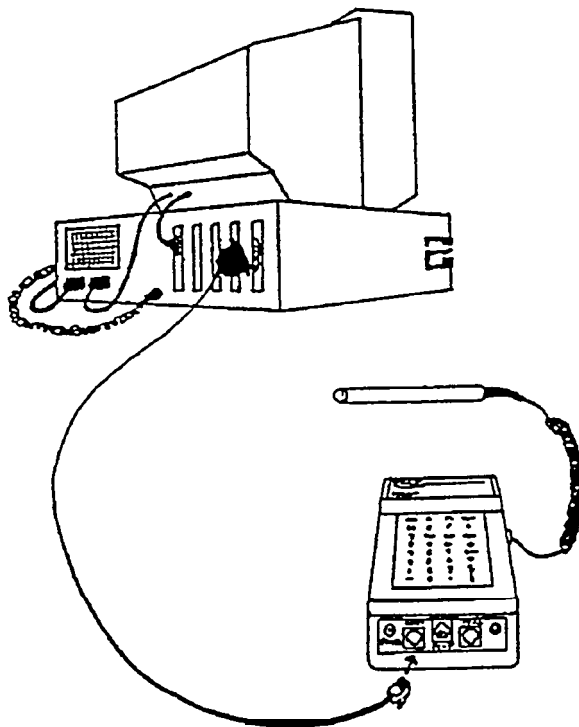


Figure 1:
Tricoder Model T50 from Worthington Data Solutions

The software available for the Tricoder also makes this reader a good choice. The BarKey software allows input from the Tricoder to be transmitted as if it were coming directly from the keyboard. Other modules include laser and dot matrix printer bar code printing software, a collection of multi-dropped reader data, label design and stand-alone label management. Of course, the label management programs will run on a PC regardless of the brand or type of bar code scanner being used.

The Tricoder's portability, rugged construction and 10,000 label memory made it ideal for applications where it is not feasible to bring the individual labels or containers to the PC workstation.

The primary use of the Tricoder was to be used in an audit mode. HMTS has been designed with several utility options and a report that work together to produce a detailed listing of HMTS system container quantities versus quantities found in the shipyard.

The process is quite straight forward. First, the Tricoder is taken into the yard in a portable mode with the wand attached. As the user finds containers, the bar codes are scanned. The container ID#, area, quantity, unit, date and time are collected in the Tricoder's memory.

Upon returning to the host computer, the Tricoder RS-232 serial connection cord can be connected and the data transfer process can begin. A program has been written for the Tricoder to collect this information. The program can be found among the system files. The name of the program is "TRI_PGM". In the event that the Tricoder is purchased the program "TRI_PGM" will need to be loaded into the Tricoder's memory. The data transfer process from the Tricoder to the host computer involves sending the data from the Tricoder to a text editor within TEAM-UP. The text editor gives the user a chance to review the data before it is imported to the Yard Audit application. Once the data is transferred to the host computer, the import process can be run. Finally, the comparison report can be generated. The comparison report will identify where HMTS varies from what was found during the yard audit.

Bar Code Printer

As with bar code scanners, there are hundreds of choices when considering bar code printers. For a given application, a particular type of dedicated bar code printer may be the best solution for a specific location or environment. However, the approach for this project was to make the best use of equipment that a shipyard may already have. A standard 8-pin IBM PC compatible dot matrix printer was found to produce very high quality bar code labels when using a newer ribbon and a medium resolution contact wand with the Worthington Tricoder. Several other printers were tested including 24 pin printers. Similar favorable results were experienced with the additional printers tested. For volume printing, a more rugged or higher speed printer may be required, but the HMTS program would require little or no change.

Bar Code Labels

For a large number of items that need to be labeled, a standard pin-feed gummed label with a standard printing ribbon may be sufficient to produce a label that will be readable numerous times by an average quality bar code reader. Other environmental conditions (e.g. outdoor storage locations, extreme heat or cold, spillage from the product itself) may warrant special labels. A number of alternatives are available in this case: polyester labels, polyester overlays for standard labels and indelible inks. A change in the type of bar code reader or the size of the label itself may be considered if these other options fail to produce a reliably readable label. Again, the flexibility of the hardware and software used to develop HMTS allows these changes with minimum impact.

HMTS can print bar codes on almost any size label. The limiting factor is the resolution of the bar code scanner used.

Although the software purchased with the Worthington Tricoder device will print any size and type of label, it was determined that a very simple label was needed for the majority of HMTS labels. The majority of HMTS labels would contain simply the bar code and the associated hazardous product identification number. It is easy to understand that when considering labeling every hazardous container within a shipyard, the label must be kept simple. During discussions with several shipyards, it was discovered that high quality pre-printed bar codes with a sequential numbering system would be the optimum situation. Since the bar code label would be applied during receiving, pre-printing labels for each order seemed to be an additional burden that was not necessary. Also, by purchasing the labels ahead of time, obtaining high quality bar codes is possible without the expense of high cost printers. In essence, the printers used for printing bar codes in the shipyards would be used for printing replacement labels and specialty labels.

Chemical Database

The choices for the chemical database were quickly narrowed down to four. The best chemical list would have the following characteristics:

1. Large number of chemicals, most of which are used in a shipyard environment
2. File format easily converted to other database formats
3. Minimal licensing fees for using the chemical data in other applications
4. Regular updates with technical support
5. Flags or indicators included for federal or state HazMat lists (e.g. SAW 302, California AB2588)
6. Good “front end” program that can be used to query the original database and verify the operation of programs (such as HMTS) that may be using the same data in a different format

While finding a chemical database that satisfied all of these criteria may seem difficult, there is one that comes very close: CHEM Master. The following chemical databases were considered for HMTS development:

CAMEO from NOAA	
2,600 chemicals, 26 MB storage required, synonyms	
PROS	Essentially free, large list of chemicals
CONS	Not updated regularly, limited NFPA/HMIS fields, large storage requirements even after selected fields are removed, laborious conversion from text fields to numeric fields, many SARA chemicals not in list
The CAMEO database is currently being enhanced, and some of the Apple Macintosh modules will soon appear in IBM PC versions.	
Roytech Suspect Chemical List	
Roytech Publications, 7758 Wisconsin Avenue, Bethesda, MD 20184 (301) 654-4281	
1,500+ chemicals, 10 MB, assigned SEQ# for missing CAS numbers, monthly updates, synonyms, DB IV format files possible, \$8,500/year	
PROS	Leading chemical list publishing, several state lists (CA, PA, NJ; WI and CA to be added soon), some NFPA/HMIS flags set
CONS	Extremely high price, not all state lists available now, no VOC indications, special conversion to provide Dbase IV format files
CHEM Master from Envirogenics	
P.O. Box L893, Langhorne, PA 19047 (800) 527-7213	
4,600 chemicals, 6 MB file size, ALL current state and federal lists (IL and federal DOT, EPA carcinogen, NJ, CA 65, CERCLA, OSHA, ACGIH, SARA 302, 304, 313; CA AB2588 to be added soon), synonyms, Dbase III format at no additional conversion cost, updates twice a year or when major lists appear, \$750/year plus \$600/year for upgrades and unlimited technical support, base software package included	
PROS	Low relative cost, all necessary fields are already in database, all state lists (except CA AB2588) are already flagged in the database, 4,600 chemicals
CONS	Large text fields are missing or brief--these fields would normally appear on MSDS
SARATrax from IIT Research Institute	
2719 Pulaski Highway, Edgewood, MD 21040 (800) 458-1564	
\$600/year plus \$300/year for updates, technical support for three months, 1,200 chemicals (SARA III lists only), only one synonym for each chemical	
PROS	Form R pre-printed on laser printer are acceptable to EPA
CONS	Low number of chemicals, no state lists, limited synonyms

The clear choice is CHEM Master from Envirogenics. There is practically nothing in any of the other databases that this one does not have. This database was designed with SARA compliance in mind. As a result, HMTS uses most of the fields in this database. It is very easy to convert this database to TEAM-UP format and many other database formats. At a cost of under \$1,000 (plus \$600 per year for upgrades and technical support), it is the best value in the group.

NOTE: Because the chemical database is not a deliverable with HMTS, the end user may either buy CHEM Master or one of the others on this list, import/convert a list from another shipyard or look for another list that may fit their needs more closely. In any case, because of the wide variety of file formats and types available on the market, HMTS only imports the CHEM Master database. Other chemical databases can be imported into HMTS with additional programming.

Another option that some yards may consider is to build the chemical list themselves from the chemicals appearing on MSDSs. While this may be time-consuming at first, it would be the best way to include the chemicals used at a particular shipyard. For the convenience of the user a report has been added to list all chemicals added by the shipyard. In the case of an update from CHEM Master, this report could be run in order to validate that the new chemicals from CHEM Master are not the same the shipyard added on their own. Please see the HMTS user's manual to import the CHEM Master database into HMTS.

Consultants' Review

Throughout the development of HMTS, several consultants were utilized in determining HMTS'S ability to meet government regulations. HMTS was reviewed by the consultants with respect to functionality, completeness and visual appeal.

The consultants were instrumental in the development of the IDEF and ERA models which determined the underlying structure of HMTS. (See IDEF Models and ERA Design Notes for further information).

The following paragraphs refer to several comments/suggestions made by the consultants during the project. Comments felt appropriate were reviewed and integrated into the system.

1. Cursor movement is confusing in the Hazardous Product application.
2. Black characters on gray should be used for NFPA and HMIS areas.
3. Filters should be added to the reports, especially in the container listing.
4. Densities should be loaded for hazardous products. Densities loaded in hazardous products would then be used to calculate Tier II reporting.
5. Shelf Life of Container should be added to the container application.
6. Open Container Date should be retained, even though it is a difficult piece of data to maintain.
7. Method of calculating expiration date of container should be added.
8. Each container should be uniquely identified with a label consisting only of the container identification number.
9. The location of Synonym should be changed to the Hazardous Product application.
10. The program allows the user to bypass Date Received and Container Quantity in the container application. Entry of the Date Received and Container Quantity should be required.
11. In order to maintain this type of system where a great deal of discipline is necessary, a newsletter of changes should be distributed to the work force when changes occur.
12. Suggest Hazardous Product "Unknown Description" field be added to Hazardous Product application. This will allow containers to be checked into inventory even though a MSDS could not be identified. Later the unknown description will be very helpful in positively identifying the material and assigning a hazardous product identification number.
13. Make the identification of responsible employee optional. Most yards will find it difficult just to identify department, area, process, etc. The employee field should not be removed because there may be yards that wish to track at the employee level.
14. A default of one year should be used for the expiration date if no expiration date is entered for a container.
15. The user should be able to empty a container versus entering in the exact amount to zero out a container.

16. As the system is implemented, it is suggested that the shop floor personnel be directly involved in entering in the use of container amounts versus having the results pooled and entered at a central location. To accomplish this the system will need to be user friendly since non-computer literate workers will be using the system. A formal training program is highly recommended. Possibly the use of video tapes could assist in the training process. This tends to instill a sense of ownership.
17. Add the ability to identify the Plant or site that the container is assigned.
18. If possible, audit trails should be added to the container application such as record stamping of username, date and time. Also, being able to review deleted records and old updated records would be a big help in determining where a container got off track.
19. Add an application that allows the addition of many hazardous product chemical component records.
20. Add an application that allows the multiple entry of containers that are exactly the same. This would be used when a shipment is received with cases or pallets of the exact same material; the only difference being the container number.
21. When material is received in very small amounts such as tubes, assign a container number to the case versus each tube.
22. When material is moved from one department to another, have the department who is moving the material to another department be responsible for entering the transfer record.
23. Make sure the report generating information to support Tier II reporting flag those chemicals that go over the Threshold Planning Quantity.
24. The reader of the final report should realize that the program will require a significant degree of discipline from the work force. But this is possible since the program allows for the user to gradually work into full tracking. In other words, the user can start by tracking 55 gallon drums and higher, than move to five-gallon pails and higher and finally move to gallon pails and higher, etc.

It was suggested by the consultants that a label consisting of only a container number be applied to every container. As the containers enter the production area, HMIS and NFPA labels could be applied. The importance of the container label is that it can quickly be applied and not slow down the receiving check-in process.

If a container that was being checked in did not appear on the shipyard's list of approved Hazardous Products, the description of the unknown product could be recorded. When receiving has time, unknown products could be tracked down and either assigned the correct hazardous product identification number or be identified as needing a hazardous product identification number.

The consultants proved to be an invaluable source of information in keeping HMTS on a development path that paralleled U.S. shipbuilding practices and production limitations and constraints.

Database Design

The design of the HMTS database was the first and most important step of the project. Any mistakes made in this phase would be magnified in later steps, possibly requiring major programming changes late in the development cycle.

The scope of the project needed to be defined first. Will this system only track hazardous chemicals or should hazardous wastes and the associated paperwork with shipping manifests be considered? Will the system enhance or completely replace the hard copy MSDS system? Should employee training and certification be considered?

Within the constraints of the contract, it was determined that only hazardous chemicals would be tracked and reported. Of course, any chemical in any quantity can be tracked for inventory purposes. The focus of the system was to maintain the list of those chemicals that must be reported to local, state and federal agencies if used, stored or otherwise processed over certain quantities.

Employee training was not considered to be in the scope of the system, and only the key fields from the MSDS would be entered into the system.

The database design was accomplished in a two-phase hybrid approach: the functional design using IDEF and the database tables using ERA. These two methods are further detailed in the next two sections.

IDEF Models

The first step of the "hybrid" approach uses the IDEF₀ (ICAM Definition-0) methodology to define the functional model of a shipyard: the "as-is" or "to-be"² of the day-to-day operations of hazardous materials tracking in a shipyard. In the case of HMTS, the "ideal" shipyard was modeled. No data or files are defined in this step; the ERA Design Notes section details this second step using the ERA (Extended Relational Analysis) method.

IDEF was developed by the United States Air Force during the 1970s as the mainstay of its ICAM Program. ICAM was intended to "bootstrap the American aerospace industry into the Factory of the Future technology." To do this, it developed a generic architecture of manufacturing and a language to build and maintain that architecture. IDEF₀ and its companion methodologies, IDEF₁ and IDEF₂, were intended to be used to create the "as-is" model of current operations and the "to-be" model of future operations. The ICAM program was cited by the National Academy of Sciences as being one of the most significant technology development programs ever conducted by the government.³

IDEF methodologies are in widespread use in the military, aerospace industry, automotive industry and numerous other Fortune 100 companies for software engineering, factory modernization, corporate restructuring and planning. In addition, Peterson Builders, Inc. in Sturgeon Bay, Wisconsin is using IDEF extensively for shipyard shop floor control.⁴ A project is also underway at the David Taylor Research Center to model the operations of an entire shipyard using IDEF₀ and IDEF_{ix} techniques.

The IDEF layouts are detailed in one of the appendices.

²IDEF Terminology: "current state" or "ideally".

³Manufacturing Systems, Redesigning the Coloration with IDEF's Help, December 1988, p. 26.

⁴J. Jessup and J. Rogness, Approaching Shipyard Shop Floor Control Using IDEF Systems Analysis Tools, SNAME 1990 Ship Production Symposium, Milwaukee, Wisconsin, August 23, 1990.

ERA Design Notes

The ERA (Extended Relational Analysis) method was used for the second phase of the database design: the data files (tables) and fields (data elements) that define the information stored in the database. While IDEF_{ix} can also be used for this process, it was found that the ERA method would produce the table designs more quickly and in a more straightforward manner. The IDEF_o diagrams were still a key element in the table design process, however.

ERA is a database design process whose key element is an interview process that uses simplified terminology to produce a set of tables in third normal form. There are no notes, bubbles, diagrams or arrows--just a set of tables that can be populated with data supplied by the users. The implementation of the relational database is a straightforward translation from tables on paper to tables on the computer.⁵

The ERA method evolved from a need for a simpler tool, one which would be easier to understand than the high learning curve that IDEF_{ix} requires. No complex diagramming methods or graphics packages are necessary for ERA. The acronym ERA also stands for Entities, Relationships and Attributes, which are the three main elements of an ERA design.

Refer to the Application Listings in the TEAM-UP Specifics appendix.

⁵Information Center, Basic Data Modeling, September 1988, p. 30.

Proposed HMTS Model

The Proposed HMTS Model represents how all entities affected by HMTS fit together. The model traces the path that a container would take as it makes its way from the receiving area to production. Although this project has not actually been implemented, the following list of activities is proposed as a typical set of procedures to follow in handling hazardous chemicals in HMTS. Many of the methods mentioned in handling hazardous chemicals come from the environmental consultants that were involved in this project.

1. Hazardous container is received
2. MSDS is sent to the HMTS responsible department
 - a. HMTS is updated with new MSDS information
 - b. Container is labeled with a container bar code id#
 - c. If appropriate, HMIS or NFPA labels are placed on container
 - d. Receipt of container information is put in HMTS
3. Containers are sent to WHSE or directly to production where move information of container is entered into HMTS
4. Use information is entered into HMTS via production personnel
5. HMTS reports are generated

Please see Figure 2 for an example of the HMTS proposed sequence of events.

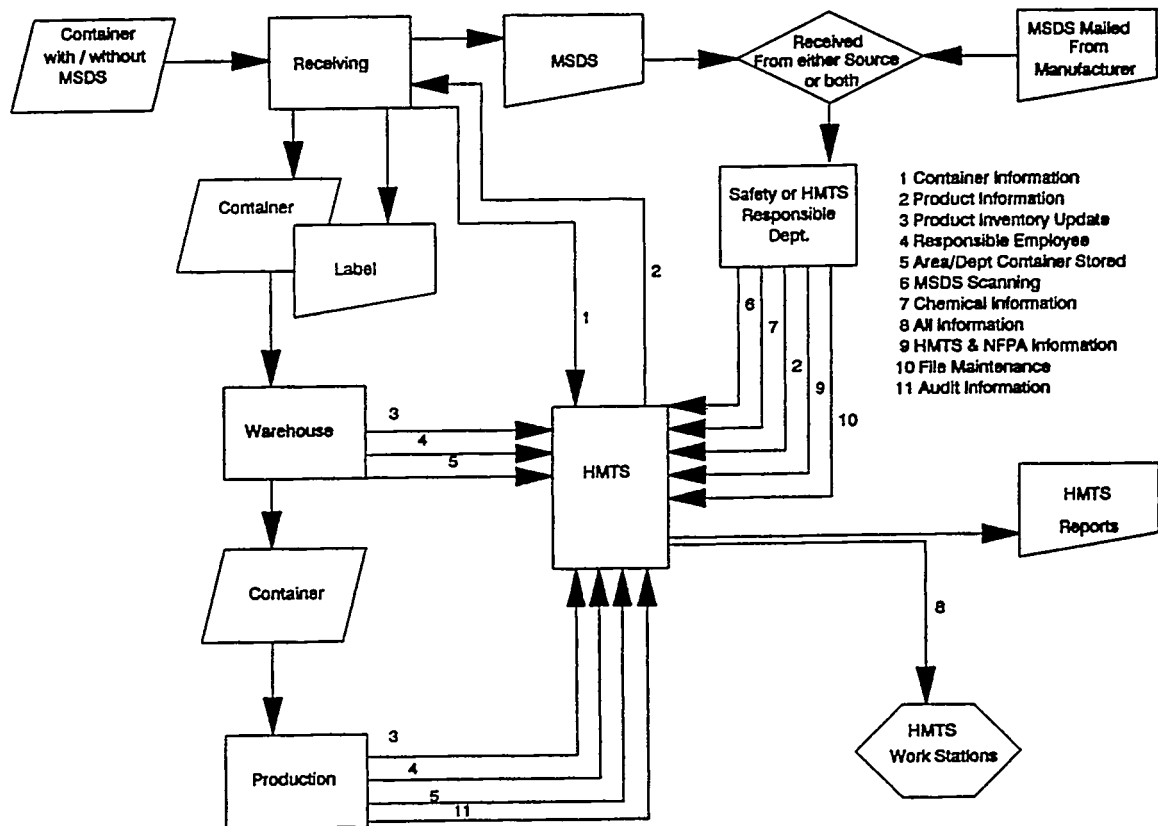


Figure 2:
HMTS Proposed Sequence of Events

System Calculations

Calculations within HMTS are very similar throughout the program. For example, explaining how Tier II report numbers are generated will best demonstrate the calculation methods used in HMTS.

Throughout the program all values are consistently converted to either gallons and then pounds whether or not metric units are used. Containers that are entered into the Container application are entered with a quantity and a unit. If the unit is a metric volume unit, the quantity is converted to gallons.

Next, the gallons are converted to equivalent pounds using the density entered in the Hazardous Product application. The Container application and the Hazardous Product application are linked via the Hazardous Product ID#. The equivalent pounds would then be multiplied by the chemical "% by weight" value entered in the Hazardous Product Chemical Component application. The resulting value in pounds represents the pounds on hand of a particular chemical.

The program performs these same basic conversions over all the containers entered in the container application for a given reporting period. During the process the program is also tracking the number of days on site, the maximum value on hand and the average daily amount on hand. The final figures are then broken down by storage area. This information is needed for Tier II reporting.

VOC emissions are calculated in much the same manner, except instead of using the density, the VOC pounds per gallon or the metric equivalent is used.

Screen Layouts

Each database development product lends a certain "look and feel" to the final program product. TEAM-UP is no exception. The default "style" of TEAM-UP generated applications consists of four elements: Menus, Applications, Reports and Utilities.

Menus allow the user to select other menus, applications, reports or utilities. Each menu contains options that the user can select. Each report within HMTS will have these report option numbers stamped in the upper right hand corner. This makes any correspondence about a particular report very easy. As long as the particular report option number is known, it is very easy for the programmer or other users of the system to acknowledge which report is in question. This logic also holds true for any option found on menus. As long as the option number is known, traceability is not a problem.

Applications will contain data. Each application will be made up of two main areas, the application screen and its corresponding one-liner screen. In short, the application screen will contain all the fields of the application. The user may search by every stored field in an application. The one-liner screen is a quick listing of the records contained within a particular application. The one-liner screen allows the user to quickly browse the records without having to look at all the data contained in every application. In general a CTRL key followed by a letter will be used to invoke all procedural language functions such as updates, enters, deletes, etc.

Reports can be generated in the same manner in which an application is called up. An option number is selected and the report will start running. In most cases, after the report is requested, the user will be prompted for a destination of the report: screen, file or printer. The default destination is to the screen. Although there are reports that do not have all three of these choices due to special circumstances, most reports have all three options. Some reports will prompt the user for filter data. In all cases, if the filter data is left blank, all records in the application will be processed unless additional filters have been chosen. Most reports can be aborted by hitting escape.

Utilities pertain to menu options that call imports: report design menus, system security, system configuration, programs outside of TEAM-UP, etc.

There is a complete TEAM-UP reference manual for HMTS provided in one of the appendices. It is highly recommended that the user refer to the appendices prior to using HMTS. Valuable searching and system configuration information is explained in detail.

Screen Graphics

High resolution graphics are not extensively used at this time. There are no modules in HMTS that would benefit from a graphic screen; however, possible development of an

MSDS scanning/image system will require a graphics interface package and a medium to high resolution monochrome or color screen. Any additional functionality requiring pie charts, X-Y graphs or real-time high resolution monitoring will necessitate the use of either an external graphics package or additional HMTS modules.

Keyboard Layout/System Help

As with the screen layout, the keyboard has a standard set of keys that work identically or similarly on any screen in HMTS. For example, hitting [HOME] followed by [F1] will show the standard keyboard functions. Application-specific help can be obtained by hitting [F1] in any field within an application. In all applications, if there are any special procedures that perform operations, the procedures will be invoked by pressing [CTRL] followed by the letter corresponding to the procedure. The corresponding letter will be found on the lower portion of the screen.

Ten-Day Test Period

The intention of the ten-day test period was to test the user friendliness of HMTS and attempt to emulate a real world situation. In actuality, the ten-day test period lasted several months. It was determined during project development that the functional and integration testing which was performed during the test period would indeed have to be repeated many times as new releases of the software were completed. Consequently, the duration was expanded.

The functional and integration testing proved very helpful in identifying many of the errors in the system. The test plan allowed the alpha software to be put through the paces of a real world shipbuilding environment without going through a complete implementation phase where testing costs would be far higher.

The tenth day of the testing period has been included in the final report. Please see the tenth day reports for examples of how each report looks after ten days of information has been loaded into HMTS.

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 1

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0001 INSIDE PIPING

AREA: 0003 BUILDING 21 TOOL ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000025	005028	MIL-P RED DYE	D	1	5	75	P	01/03/91	01/03/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 2

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0002 OUTSIDE PIPING

AREA: 0012 WAREHOUSE 8 TOOL ROOM BIN 18

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000039	005017	2-PHENYLPHENOL, 99%	E	1	4	0	G	01/04/91	01/08/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 3

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0003 OUTSIDE MACH

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000036	005027	INTERGARD EPOXY	F	1	4	20	P	01/04/91	01/04/91

AREA: 0004 LAMINATING EAST SHOP FLOOR

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
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000005	005016	INTERZINC SILICATE RED BINDER	D	1	4	0	G	01/01/91	01/09/91
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AREA: 0015 PIPE SHOP WATER FRONT TOOL BOOTH

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
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000090	005022	124 ENAMEL, HABITABILITY COLORS	N	1	4	1092	O	01/09/91	01/09/91
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AREA: 0018 RIGGING BACK OFFICE

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
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000088	005016	INTERZINC SILICATE RED BINDER	O	1	4	536	P	01/09/91	01/09/91
000089	005025	INTERZINC	N	1	4	1136	O	01/09/91	01/09/91

AREA: 0020 ENGINEERING SUPPLY SHELF 12

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
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000042	005021	ANTI-FOULING BOTTOM PAINT	C	1	4	544	G	01/04/91	01/07/91
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TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 4

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0004 INSIDE MACH

AREA: 0002 BLAST BOOTH

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000096	005017	2-PHENYLPHENOL, 99%	C	1	4	104	O	01/10/91	01/10/91

AREA: 0012 WAREHOUSE # TOOL ROOM BDN 18

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
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000095	005027	INTERGARD EPOXY	B	1	4	1104	L	01/10/91	01/10/91
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AREA: 0014 PIPE SHOP MAIN TOOL ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
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000047	005020	INORGANIC GLASS	O	1	4	1002	P	01/05/91	01/05/91
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AREA: 0018 RIGGING BACK OFFICE

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
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000012	005021	ANTI-FOULING BOTTOM PAINT	F	1	4	50	G	01/02/91	01/02/91
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TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 5

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0005 PAINTING

AREA: 0008 DIPPING BOOTH

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000059	005022	124 ENAMEL, HABITABILITY COLORS	F	1	4	11	K	01/06/91	01/06/91
AREA: 0014 PIPE SHOP MAIN TOOL ROOM									
CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000057	005031	INTERPLATE RED FERRIC/ZINC SILICATE	N	1	4	11	T	01/06/91	01/06/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 6

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0006 INSULATING

AREA: 0002 BLAST BOOTH

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000026	005029	CGM 8361 CLEAR CROWN SILICATE	I	1	4	69	P	01/03/91	01/08/91
AREA: 0006 MACHING TOOL ROOM									
CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000003	005016	INTERZINC SILICATE RED BINDER	K	1	4	80	P	01/01/91	01/01/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 7

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0007 CARPENTRY

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000004	005017	2-PHENYLPHENOL, 99%	C	2	4	493	G	01/01/91	01/03/91

AREA: 0004 LAMINATING EAST SHOP FLOOR

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000055	005025	INTERCLEANE	D	1	4	125	L	01/06/91	01/06/91

AREA: 0011 WAREHOUSE & TOOL ROOM BIN 17

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000009	005015	NICKEL PLATED ABRASIVE PRODUCTS	K	1	4	0	P	01/01/91	01/01/91

AREA: 0012 WAREHOUSE & TOOL ROOM BIN 18

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000066	005024	FBI RECYCLED LACQUER THINNER	H	1	4	32150	G	01/07/91	01/07/91

AREA: 0015 PIPE SHOP WATER FRONT TOOL BOOTH

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000065	005018	GENETRON 113 TRICHLOROFLOUROETHANE	K	1	4	147	K	01/07/91	01/08/91

AREA: 0016 INSULATING SHOP CRIB

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000064	005034	EASTMAN POLYESTER RED 2G DYE	H	1	4	50	Q	01/07/91	01/07/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 8

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0008 ELECTRICAL

AREA: 0002 BLAST BOOTH

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000007	005018	GENETRON 113 TRICHLOROFLOUROETHANE	K	1	4	0	P	01/01/91	01/09/91

AREA: 0003 BUILDING 21 TOOL ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000045	005034	EASTMAN POLYESTER RED 2G DYE	Q	1	4	427	P	01/05/91	01/05/91

AREA: 0010 WAREHOUSE & TOOL ROOM BIN 16

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000043	005016	INTERZINC SILICATE RED BINDER	I	1	4	0	P	01/05/91	01/07/91

AREA: 0015 PIPE SHOP WATER FRONT TOOL BOOTH

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000046	005016	INTERZINC SILICATE RED BINDER	D	1	4	52	P	01/05/91	01/05/91

AREA: 0018 RIGGING BACK OFFICE

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000067	005023	GENTEX TO-60	A	1	6	350	Q	01/07/91	01/07/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 9

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0009 WELDING

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT DATE	LAST RECEIVED	CHANGE
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000020	005024	FBI RECYCLED LACQUER THINNER	E	1	4	0	G	01/02/91	01/03/91
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AREA: 0002 BLAST BOOTH

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT DATE	LAST RECEIVED	CHANGE
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000019	005020	INORGANIC GLASS	K	1	4	0	P	01/02/91	01/02/91
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AREA: 0022 PAINT TEST AREA

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT DATE	LAST RECEIVED	CHANGE
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000016	005015	NICKEL PLATED ABRASIVE PRODUCTS	D	1	4	124	P	01/02/91	01/10/91
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TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 10

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0010 HULL

AREA: 0004 LAMINATING EAST SHOP FLOOR

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT DATE	LAST RECEIVED	CHANGE
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000008	005019	AQUA DIAMOND COOLANT	D	1	4	50	G	01/01/91	01/01/91
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AREA: 0007 QUALITY ASSURANCE LAB

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT DATE	LAST RECEIVED	CHANGE
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000075	005031	INTERPLATE RED FERRO/ZINC SILICATE	E	1	4	93	Q	01/08/91	01/10/91
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AREA: 0008 DIPPING BOOTH

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT DATE	LAST RECEIVED	CHANGE
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000058	005019	AQUA DIAMOND COOLANT	N	1	4	11	O	01/06/91	01/06/91
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AREA: 0011 WAREHOUSE 8 TOOL ROOM BIN 17

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT DATE	LAST RECEIVED	CHANGE
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000085	005019	AQUA DIAMOND COOLANT	I	1	5	136	K	01/09/91	01/09/91
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000084 005018 GENETRON 113 TRICHLOROFLUOROETHANE

AREA: 0013 WAREHOUSE 8 TOOL ROOM BIN 22

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT DATE	LAST RECEIVED	CHANGE
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000061	005025	INTERCLEN	F	1	4	1023	R	01/07/91	01/07/91
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AREA: 0021 ENGINEERING SUPPLY SHELF 17

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT DATE	LAST RECEIVED	CHANGE
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000086	005028	MIL-P RED DYE	K	1	5	36	P	01/09/91	01/09/91
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AREA: 0022 PAINT TEST AREA

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT DATE	LAST RECEIVED	CHANGE
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000018	005022	124 ENAMEL, HABITABILITY COLORS	D	2	4	0	P	01/02/91	01/09/91
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TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 11

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0011 TESTING

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000028	005018	GENETRON 113 TRICHLOROFLOURIDE	L	1	4	0	P	01/03/91	01/03/91
000024	005027	INTERGARD EPOXY	D	2	4	0	L	01/03/91	01/05/91
000033	005034	EASTMAN POLYESTER RED 2G DYE	F	1	4	0	G	01/04/91	01/06/91
000074	005024	FBI RECYCLED LACQUER THINNER	M	1	4	10	Q	01/08/91	01/08/91

AREA: 0002 BLAST BOOTH

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000034	005028	MIL-P RED DYE	F	1	4	0	G	01/04/91	01/04/91
000006	005017	2-PHENYLPHENOL, 99%	D	1	4	144	G	01/01/91	01/09/91

AREA: 0005 MAIN TOOL ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000023	005027	INTERGARD EPOXY	D	2	4	0	L	01/03/91	01/06/91

AREA: 0008 DIPPING BOOTH

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000021	005025	INTERACLENE	B	1	4	290	P	01/03/91	01/10/91

AREA: 0011 WAREHOUSE # TOOL ROOM BIN 17

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000027	005029	CGM 8361 CLEAR CROWN SILICATE	J	1	4	0	O	01/03/91	01/03/91

AREA: 0014 PIPE SHOP MAIN TOOL ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000022	005033	ACETYLENE	L	2	4	20	P	01/04/91	01/09/91

AREA: 0015 PIPE SHOP WATER FRONT TOOL BOOTH

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000031	005018	GENETRON 113 TRICHLOROFLOURIDE	M	1	4	0	P	01/04/91	01/08/91

AREA: 0016 INSULATING SHOP CRIB

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 12

CONTAINERS BY DEPARTMENT AND AREA

000029 005021 ANTI-FOULING BOTTOM PAINT F 1 4 0 G 01/03/91 01/08/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 13

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0012 BLASTING

AREA: 0002 BLAST BOOTH

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
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000038	005030	POTASH SODALIME ZINC SILICATE	K	1	4	0	P	01/04/91	01/04/91
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AREA: 0011 WAREHOUSE & TOOL ROOM BIN 17

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
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000015	005024	FBI RECYCLED LACQUER THINNER	A	1	4	0	G	01/02/91	01/02/91
000073	005026	MD8733	E	1	4	12	L	01/08/91	01/08/91

AREA: 0021 ENGINEERING SUPPLY SHELF 17

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
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000011	005020	INORGANIC GLASS	K	1	4	0	P	01/02/91	01/10/91
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TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 14

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0013 QUALITY ASSURE.

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
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000041	005026	MD8733	H	1	4	0	P	01/04/91	01/05/91
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AREA: 0012 WAREHOUSE & TOOL ROOM BIN 18

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
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000013	005022	124 ENAMEL, HABITABILITY COLORS	F	1	4	43	G	01/02/91	01/02/91
000077	005034	EASTMAN POLYESTER RED 2G DYE	K	1	4	560	K	01/08/91	01/08/91

AREA: 0016 INSULATING SHOP CRIB

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
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000087	005031	INTERPIATE RED FERRO/ZINC SILICATE	B	2	4	1136	G	01/09/91	01/09/91
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AREA: 0026 HULL 55 BELOW DECK GANG BOX

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
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000080	005016	INTERZINC SILICATE RED BINDER	J	1	4	85	P	01/08/91	01/08/91
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TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 15

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0014 INDUSTRIAL ENGR

AREA: 0002 BLAST BOOTH

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000048	005023	GENTEX TC-60	H	1	4	404	P	01/05/91	01/10/91

AREA: 0010 WAREHOUSE 8 TOOL ROOM BIN 16

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000049	005023	GENTEX TC-60	E	2	4	45	P	01/05/91	01/05/91

AREA: 0013 WAREHOUSE 8 TOOL ROOM BIN 22

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000099	005023	GENTEX TC-60	F	1	4	24	Q	01/10/91	01/10/91

AREA: 0014 PIPE SHOP MAIN TOOL ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000076	005030	POTASH SODALINE ZINC SILICATE	K	1	4	60	K	01/08/91	01/08/91
000100	005024	FBI RECYCLED LACQUER THINNER	Q	1	4	1414	P	01/10/91	01/10/91

AREA: 0019 GASOLINE STATION NUMBER 1

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000093	005030	POTASH SODALINE ZINC SILICATE	F	1	4	52	O	01/10/91	01/10/91

AREA: 0024 HULL 0006 AFT DECK BINS

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000050	005029	CGH 8361 CLEAR CROWN SILICATE	J	1	4	0	P	01/05/91	01/07/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 16

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0015 ENGINEERING

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000010	005018	GENTEX 113 TRICHLOROFLUOROETHANE	C	2	4	0	G	01/01/91	01/01/91
000040	005022	124 ENAMEL, HABITABILITY COLORS	F	1	4	15	G	01/04/91	01/04/91

AREA: 0006 MACHING TOOL ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000014	005023	GENTEX TC-60	D	1	4	505	P	01/02/91	01/02/91

AREA: 0024 HULL 0006 AFT DECK BINS

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000051	005026	MD8733	I	1	4	46	P	01/06/91	01/07/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 17

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0016 MANAGEMENT INFO

AREA: 0007 QUALITY ASSURANCE LAB

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000052	005028	MIL-P RED DYE	K	1	4	125	P	01/06/91	01/06/91

AREA: 0015 PIPE SHOP WATER FRONT TOOL BOOTH

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000068	005020	INORGANIC GLASS	A	1	4	326535	R	01/07/91	01/07/91
000071	005029	CGW 8361 CLEAR CROWN SILICATE	F	1	4	216	G	01/08/91	01/08/91

AREA: 0018 RIGGING BACK OFFICE

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000053	005015	NICKEL PLATED ABRASIVE PRODUCTS	O	1	4	2325	P	01/06/91	01/06/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 18

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0017 PLANNING

AREA: 0007 QUALITY ASSURANCE LAB

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000054	005024	PBI RECYCLED LACQUER THINNER	D	1	4	325	G	01/06/91	01/06/91

AREA: 0022 PAINT TEST AREA

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000044	005031	INTERPLATE RED FERRO/ZINC SILICATE	Q	2	4	1324	P	01/05/91	01/07/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 19

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0019 FABRICATION

AREA: 0004 LAMINATING EAST SHOP FLOOR

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000017	005018	GENETRON 113 TRICHLOROFLUOROETHANE	D	2	4	0	P	01/02/91	01/10/91

AREA: 0008 DIPPING BOOTH

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000060	005034	EASTMAN POLYESTER RED 2G DYE	F	1	4	1065	R	01/06/91	01/06/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 20

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0020 ACCOUNTING

AREA: 0013 WAREHOUSE & TOOL ROOM BTH 22

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000083	005022	124 ENAMEL, HABITABILITY COLORS	E	1	4	35	L	01/09/91	01/09/91

AREA: 0022 PAINT TEST AREA

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000082	005019	AQUA DIAMOND COOLANT	E	1	4	165	G	01/09/91	01/09/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 21

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0022 DIPPING

AREA: 0007 QUALITY ASSURANCE LAB

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000037	005026	MD8733	K	1	4	0	P	01/04/91	01/08/91

AREA: 0020 ENGINEERING SUPPLY SHELF 12

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000030	005015	NICKEL PLATED ABRASIVE PRODUCTS	Q	1	5	1319	P	01/03/91	01/06/91

AREA: 0021 ENGINEERING SUPPLY SHELF 17

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000072	005016	INTERZINC SILICATE RED BINDER	E	1	4	45	Q	01/08/91	01/08/91

AREA: 0022 PAINT TEST AREA

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000078	005034	EASTMAN POLYESTER RED 2G DYE	F	1	4	2	P	01/08/91	01/08/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 22

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0023 QUALITY CIRCLES

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000079	005027	INTERGARD EPOXY	O	1	4	738	P	01/08/91	01/10/91

AREA: 0022 PAINT TEST AREA

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000081	005021	ANTI-FOULING BOTTOM PAINT	E	1	4	185	G	01/09/91	01/09/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 23

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0024 WAREHOUSE

AREA: 0003 BUILDING 21 TOOL ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000096	005015	NICKEL PLATED ABRASIVE PRODUCTS	F	1	4	4	O	01/10/91	01/10/91
000097	005032	INTERLAC BLACK ALKYL ENAMEL	C	2	5	304	T	01/10/91	01/10/91

AREA: 0013 WAREHOUSE 8 TOOL ROOM BIN 22

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000022	005026	MD8733	A	2	4	300	P	01/03/91	01/05/91
000092	005024	EASTMAN POLYESTER RED 2G DYE	E	1	4	12	G	01/10/91	01/10/91
000091	005024	FBI RECYCLED LACQUER THINNER	E	1	4	92	P	01/10/91	01/10/91

AREA: 0019 GASOLINE STATION NUMBER 1

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000094	005020	INORGANIC GLASS	F	1	4	104	R	01/10/91	01/10/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 24

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0025 FIBERGLASS

AREA: 0005 MAIN TOOL ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000002	005015	NICKEL PLATED ABRASIVE PRODUCTS	D	1	4	29	G	01/01/91	01/09/91

AREA: 0024 HULL 0006 AIT DECK BINS

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000056	005031	INTERPLATE RED FERRO/ZINC SILICATE	H	1	4	1125	O	01/06/91	01/06/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 25

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0026 CLEANING

AREA: 0005 MAIN TOOL ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000069	005021	ANTI-FOULING BOTTOM PAINT	F	1	4	2	G	01/07/91	01/07/91

AREA: 0025 HULL 0007 AFT DECK BINS

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000070	005032	INTERLAC BLACK ALKID ENAMEL	F	1	4	16	G	01/07/91	01/07/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 26

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0027 PURCHASING

AREA: 0024 HULL 0006 AFT DECK BINS

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000063	005017	2-PHENYLPHENOL, 99%	H	1	4	100	T	01/07/91	01/07/91

AREA: 0027 GRAVING DRYDOCK

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRES TYPE	TEMP TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000035	005029	CGM 8361 CLEAR CROWN SILICATE	E	1	4	43	G	01/04/91	01/06/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 61
PAGE#: 27

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0029 RIGGING

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRS TYPE	TD# TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000001	005012	BARIUM COMPOUNDS	F	1	4	90	P	01/01/91	01/01/92

AREA: 0010 WAREHOUSE B TOOL ROOM BIN 16

CONT#	PROD#	DESCRIPTION	CONT TYPE	PRS TYPE	TD# TYPE	CURRENT QUANTITY	UNIT	DATE RECEIVED	LAST CHANGE
000062	005033	ACETYLENE	L	2	5	100	L	01/07/91	01/07/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 62
PAGE#: 1

CONTAINERS HISTORY FROM: 01/01/91 TO 01/31/91

RCV/USED DATE	CONT#	PROD#	PRODUCT DESCRIPTION	EMPL/NAME	QUANTITY LBS RCV	QUANTITY LBS USED
01/01/91	000001			1 ADDISON, BARBARA	0.0000	10.0000
01/01/91	000001				100.0000	0.0000
01/03/91	000001			2 BELANGER, JAMES	0.0000	0.0000
01/05/91	000001			1 ADDISON, BARBARA	0.0000	0.0000
01/05/91	000001			1 ADDISON, BARBARA	0.0000	0.0000
CURRENT CONT QTY/UNIT:					90 P	90 P
01/01/91	000002				123.2200	0.0000
01/01/91	000002			2 BELANGER, JAMES	0.0000	5.0000
01/09/91	000002			5 EASTVIEW, CRAIG	0.0000	100.0000
CURRENT CONT QTY/UNIT:					29 G	18 P
01/01/91	000003				100.0000	0.0000
01/01/91	000003			4 DANIELS, JEROME	0.0000	20.0000
CURRENT CONT QTY/UNIT:					80 P	80 P
01/01/91	000004				4400.0000	0.0000
01/01/91	000004			7 GENTHE, ROBERT	0.0000	10.0000
01/03/91	000004			11 KAISER, STEPHEN	0.0000	50.0000
CURRENT CONT QTY/UNIT:					493 G	4340 P
01/01/91	000005				500.0000	0.0000
01/01/91	000005			7 GENTHE, ROBERT	0.0000	12.0000
01/09/91	000005			9 ISAACSEN, SHERRY	0.0000	488.0000
CURRENT CONT QTY/UNIT:					0 G	0 P
01/01/91	000006				1320.0000	0.0000
01/01/91	000006			9 ISAACSEN, SHERRY	0.0000	34.0000
01/09/91	000006			8 HOFFMAN, CARL	0.0000	22.0000
CURRENT CONT QTY/UNIT:					144 G	1264 P
01/01/91	000007				50.0000	0.0000
01/01/91	000007			13 MOON, GERALD	0.0000	10.0000
01/04/91	000007			15 OLSON, MERWIN	0.0000	4.6000
01/09/91	000007			17 QUINN, SARA	0.0000	35.4000
CURRENT CONT QTY/UNIT:					0 P	0 P
01/01/91	000008				71.5000	0.0000
01/01/91	000008			15 OLSON, MERWIN	0.0000	6.5000
CURRENT CONT QTY/UNIT:					50 G	65 P
01/01/91	000009				10.0000	0.0000

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 62
PAGE#: 2

CONTAINERS HISTORY FROM: 01/01/91 TO 01/31/91

RCV/USED DATE	CONT#	PROD#	PRODUCT DESCRIPTION	EMPL#/NAME	QUANTITY LBS RCV	QUANTITY LBS USED
01/01/91	000009			14 NOONAN, SHAWN	0.0000	10.0000
				CURRENT CONT QTY/UNIT:	0 P	0 P
01/01/91	000010				1150.0000	0.0000
01/01/91	000010			15 OLSON, MERWIN	0.0000	1150.0000
				CURRENT CONT QTY/UNIT:	0 G	0 P
01/02/91	000011				100.0000	0.0000
01/02/91	000011			9 ISAACSEN, SHERRY	0.0000	12.0000
01/10/91	000011			15 OLSON, MERWIN	0.0000	88.0000
				CURRENT CONT QTY/UNIT:	0 P	0 P
01/02/91	000012				500.0000	0.0000
				CURRENT CONT QTY/UNIT:	50 G	500 P
01/02/91	000013	000014	SULFURIC ACID		610.0000	0.0000
01/02/91	000013			12 LOEFFELHOLZ, HOWARD	0.0000	80.0000
				CURRENT CONT QTY/UNIT:	43 G	530 P
01/02/91	000014			3 CABINETREE, SHAWNTHA	0.0000	45.0000
01/02/91	000014				550.0000	0.0000
				CURRENT CONT QTY/UNIT:	505 P	505 P
01/02/91	000015			7 GENTHE, ROBERT	0.0000	4.5650
01/02/91	000015				4.5650	0.0000
				CURRENT CONT QTY/UNIT:	0 G	0 P
01/02/91	000016				200.0000	0.0000
01/03/91	000016			2 BELANGER, JAMES	0.0000	3.2555
01/03/91	000016			2 BELANGER, JAMES	0.0000	0.0000
01/06/91	000016			2 BELANGER, JAMES	0.0000	8.1387
01/07/91	000016			12 LOEFFELHOLZ, HOWARD	0.0000	2.3104
01/09/91	000016			4 DANIELS, JEROME	0.0000	0.4621
01/10/91	000016	000100	MN SPECIAL SOLVENT	5 EASTVIEW, CRAIG	0.0000	62.0000
				CURRENT CONT QTY/UNIT:	124 P	124 P
01/02/91	000017				80.0000	0.0000
01/04/91	000017			3 CABINETREE, SHAWNTHA	0.0000	20.0000
01/07/91	000017			16 PINK, MARY	0.0000	6.3250
01/10/91	000017			14 NOONAN, SHAWN	0.0000	53.6750
				CURRENT CONT QTY/UNIT:	0 P	0 P

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 62
PAGE#: 3

CONTAINERS HISTORY FROM: 01/01/91 TO 01/31/91

RCV/USED DATE	CONT#	PROD#	PRODUCT DESCRIPTION	EMPL#/NAME	QUANTITY LBS RCV	QUANTITY LBS USED
01/02/91	000018				180.0000	0.0000
01/02/91	000018	000014	SULFURIC ACID	7 GENTHE, ROBERT	0.0000	32.0000
01/05/91	000018			17 QUINN, SARA	0.0000	12.0000
01/06/91	000018			4 DANIELS, JEROME	0.0000	8.2500
01/09/91	000018			8 HOFFMAN, CARL	0.0000	127.7500
				CURRENT CONT QTY/UNIT:	0 P	0 P
01/02/91	000019				175.0000	0.0000
01/02/91	000019			5 EASTVIEW, CRAIG	0.0000	0.5538
01/02/91	000019			7 GENTHE, ROBERT	0.0000	174.4462
				CURRENT CONT QTY/UNIT:	0 P	0 P
01/02/91	000020				0.8715	0.0000
01/03/91	000020			2 BELANGER, JAMES	0.0000	0.8715
				CURRENT CONT QTY/UNIT:	0 G	0 P
01/03/91	000021				200.0000	0.0000
01/03/91	000021			1 ADDISON, BARBARA	0.0000	10.0000
01/10/91	000021			15 OLSON, MERWIN	0.0000	0.2595
				CURRENT CONT QTY/UNIT:	290 P	290 P
01/03/91	000022				320.0000	0.0000
01/05/91	000022			9 ISAACSEN, SHERRY	0.0000	20.0000
				CURRENT CONT QTY/UNIT:	300 P	300 P
01/03/91	000023				179.6560	0.0000
01/03/91	000023			8 HOFFMAN, CARL	0.0000	10.0000
01/06/91	000023			7 GENTHE, ROBERT	0.0000	169.6560
				CURRENT CONT QTY/UNIT:	0 L	0 P
01/03/91	000024				179.6560	0.0000
01/05/91	000024			11 KAISER, STEPHEN	0.0000	179.6560
				CURRENT CONT QTY/UNIT:	0 L	0 P
01/03/91	000025				75.0000	0.0000
				CURRENT CONT QTY/UNIT:	75 P	75 P
01/03/91	000026				179.0000	0.0000
01/04/91	000026			5 EASTVIEW, CRAIG	0.0000	10.0000
01/08/91	000026			9 ISAACSEN, SHERRY	0.0000	100.0000

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 62
PAGE#: 4

CONTAINERS HISTORY FROM: 01/01/91 TO 01/31/91

MOV/USED DATE	CONT#	PROD#	PRODUCT DESCRIPTION	EMPL/NAME	QUANTITY LBS RCVD	QUANTITY LBS USED
CURRENT CONT QTY/UNIT:					69 P	69 P
01/03/91	000027				8.0625	0.0000
01/03/91	000027			4 DANIELS, JEROME	0.0000	8.0625
CURRENT CONT QTY/UNIT:					0 O	0 P
01/03/91	000028				100.0000	0.0000
01/03/91	000028			9 ISAACSON, SHERRY	0.0000	100.0000
CURRENT CONT QTY/UNIT:					0 P	0 P
01/03/91	000029				200.0000	0.0000
01/04/91	000029	000075	SH SOLVENT	14 MOONAN, SHAWN	0.0000	200.0000
CURRENT CONT QTY/UNIT:					0 G	0 P
01/03/91	000030				1320.0000	0.0000
01/06/91	000030			7 GENTIE, ROBERT	0.0000	0.7701
CURRENT CONT QTY/UNIT:					1319 P	1319 P
01/04/91	000031				20.0000	0.0000
01/04/91	000031			12 LOEFFELHOLZ, HOWARD	0.0000	5.0000
01/04/91	000031			13 MOON, GERALD	0.0000	15.0000
CURRENT CONT QTY/UNIT:					0 P	0 P
01/04/91	000032				120.0000	0.0000
01/09/91	000032			6 FERRIER, MICHAEL	0.0000	100.0000
CURRENT CONT QTY/UNIT:					20 P	20 P
01/04/91	000033				242.3600	0.0000
01/06/91	000033			4 DANIELS, JEROME	0.0000	242.3600
CURRENT CONT QTY/UNIT:					0 G	0 P
01/04/91	000034				11.0000	0.0000
01/04/91	000034			13 MOON, GERALD	0.0000	11.0000
CURRENT CONT QTY/UNIT:					0 G	0 P
01/04/91	000035				56.0000	0.0000
01/06/91	000035			12 LOEFFELHOLZ, HOWARD	0.0000	22.0000
CURRENT CONT QTY/UNIT:					43 G	34 P
01/04/91	000036				20.0000	0.0000

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 62
PAGE#: 5

CONTAINERS HISTORY FROM: 01/01/91 TO 01/31/91

MOV/USED DATE	CONT#	PROD#	PRODUCT DESCRIPTION	EMPL/NAME	QUANTITY LBS RCVD	QUANTITY LBS USED
CURRENT CONT QTY/UNIT:					20 P	20 P
01/05/91	000037			12 LOEFFELHOLZ, HOWARD	0.0000	17.5000
01/04/91	000037			4 DANIELS, JEROME	0.0000	102.5000
CURRENT CONT QTY/UNIT:					0 P	0 P
01/04/91	000038				120.0000	0.0000
01/04/91	000038				10.0000	0.0000
01/04/91	000038			10 JACKSON, BELINDA	0.0000	6.0000
01/04/91	000038			12 LOEFFELHOLZ, HOWARD	0.0000	4.0000
CURRENT CONT QTY/UNIT:					0 P	0 P
01/04/91	000039				958.0000	0.0000
01/06/91	000039			2 BELANGER, JAMES	0.0000	10.0000
01/08/91	000039			13 MOON, GERALD	0.0000	958.0000
CURRENT CONT QTY/UNIT:					0 G	0 P
01/04/91	000040				183.0000	0.0000
CURRENT CONT QTY/UNIT:					15 G	183 P
01/04/91	000041				45.0000	0.0000
01/05/91	000041	000050	GENETRON 113 TRICHLOROFLUOROETHANE	4 DANIELS, JEROME	0.0000	30.0000
01/05/91	000041			15 OLSON, HERWIN	0.0000	15.0000
CURRENT CONT QTY/UNIT:					0 P	0 P
01/04/91	000042				5450.0000	0.0000
01/07/91	000042			5 EASTVIEW, CRAIG	0.0000	11.0000
CURRENT CONT QTY/UNIT:					544 G	5439 P
01/05/91	000043				32.0000	0.0000
01/07/91	000043			7 GENTIE, ROBERT	0.0000	32.0000
CURRENT CONT QTY/UNIT:					0 P	0 P
01/05/91	000044				1332.0000	0.0000
01/07/91	000044			4 DANIELS, JEROME	0.0000	8.0000
CURRENT CONT QTY/UNIT:					1324 P	1324 P
01/05/91	000045				432.0000	0.0000
01/05/91	000045			2 BELANGER, JAMES	0.0000	5.0000
CURRENT CONT QTY/UNIT:					427 P	427 P

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 62
PAGE#: 6

CONTAINERS HISTORY FROM: 01/01/91 TO 01/31/91

RCV/USED DATE	CONT#	PROD#	PRODUCT DESCRIPTION	EMPL#/NAME	QUANTITY LBS RCV	QUANTITY LBS USED
01/05/91	000046				52.0000	0.0000
				CURRENT CONT QTY/UNIT:	52 P	52 P
01/05/91	000047				1002.0000	0.0000
				CURRENT CONT QTY/UNIT:	1002 P	1002 P
01/05/91	000048				405.0000	0.0000
01/10/91	000048			6 FENNER, MICHAEL	0.0000	1.0120
				CURRENT CONT QTY/UNIT:	404 P	404 P
01/05/91	000049				45.0000	0.0000
				CURRENT CONT QTY/UNIT:	45 P	45 P
01/05/91	000050				25.0000	0.0000
01/07/91	000050			3 CABINETREE, SHANTIA	0.0000	25.0000
				CURRENT CONT QTY/UNIT:	0 P	0 P
01/06/91	000051				100.0000	0.0000
01/07/91	000051			9 ISAACSEN, SHERRY	0.0000	54.0625
				CURRENT CONT QTY/UNIT:	46 P	46 P
01/06/91	000052				125.0000	0.0000
				CURRENT CONT QTY/UNIT:	125 P	125 P
01/06/91	000053				2325.0000	0.0000
				CURRENT CONT QTY/UNIT:	2325 P	2325 P
01/06/91	000054				2.6975	0.0000
				CURRENT CONT QTY/UNIT:	325 G	3 P
01/06/91	000055				22.8500	0.0000
				CURRENT CONT QTY/UNIT:	125 L	23 P
01/06/91	000056	000055	INTERZINC		1125.0000	0.0000
				CURRENT CONT QTY/UNIT:	1125 Q	1125 P
01/06/91	000057				5.2500	0.0000
				CURRENT CONT QTY/UNIT:	11 T	5 P

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 62
PAGE#: 7

CONTAINERS HISTORY FROM: 01/01/91 TO 01/31/91

RCV/USED DATE	CONT#	PROD#	PRODUCT DESCRIPTION	EMPL#/NAME	QUANTITY LBS RCV	QUANTITY LBS USED
01/06/91	000058				0.6563	0.0000
				CURRENT CONT QTY/UNIT:	11 O	1 P
01/06/91	000059				23.1000	0.0000
				CURRENT CONT QTY/UNIT:	11 K	23 P
01/06/91	000060				2.3437	0.0000
				CURRENT CONT QTY/UNIT:	1065 R	2 P
01/07/91	000061				2.2506	0.0000
				CURRENT CONT QTY/UNIT:	1023 R	2 P
01/07/91	000062				1996.3000	0.0000
				CURRENT CONT QTY/UNIT:	100 L	1996 P
01/07/91	000063				110.0000	0.0000
				CURRENT CONT QTY/UNIT:	100 T	110 P
01/07/91	000064				302.9500	0.0000
				CURRENT CONT QTY/UNIT:	50 Q	303 P
01/07/91	000065				330.0000	0.0000
01/08/91	000065			12 LOEFFELHOLZ, HOWARD	0.0000	6.6125
				CURRENT CONT QTY/UNIT:	147 K	323 P
01/07/91	000066				266.8450	0.0000
				CURRENT CONT QTY/UNIT:	32150 G	267 P
01/07/91	000067				1330.0000	0.0000
				CURRENT CONT QTY/UNIT:	350 Q	1330 P
01/07/91	000068				718.3763	0.0000
				CURRENT CONT QTY/UNIT:	326535 R	718 P
01/07/91	000069				17.0000	0.0000
				CURRENT CONT QTY/UNIT:	2 G	17 P

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 62
PAGE#: 8

CONTAINERS HISTORY FROM: 01/01/91 TO 01/31/91

RCV/USED DATE	CONT#	PROD#	PRODUCT DESCRIPTION	EMPL/NAME	QUANTITY LBS RCVD	QUANTITY LBS USED
01/07/91	000070				34.5400	0.0000
				CURRENT CONT QTY/UNIT:	16 G	35 P
01/08/91	000071	000050	GENETRON 113 TRICHLOROFLUOROETHANE		1725.6000	0.0000
				CURRENT CONT QTY/UNIT:	216 G	1726 P
01/08/91	000072				99.4400	0.0000
				CURRENT CONT QTY/UNIT:	45 Q	99 P
01/08/91	000073				2688.1822	0.0000
				CURRENT CONT QTY/UNIT:	12 L	2688 P
01/08/91	000074				0.0214	0.0000
				CURRENT CONT QTY/UNIT:	10 Q	0 P
01/08/91	000075				110.2000	0.0000
01/08/91	000075			21 URBAN, PATRICIA	0.0000	10.0000
01/10/91	000075			3 CABINETREE, SAMANTHA	0.0000	7.0000
				CURRENT CONT QTY/UNIT:	93 Q	93 P
01/08/91	000076	000075	SH SOLVENT		132.4400	0.0000
				CURRENT CONT QTY/UNIT:	60 K	132 P
01/08/91	000077				1232.4400	0.0000
				CURRENT CONT QTY/UNIT:	560 K	1232 P
01/08/91	000078				2.2000	0.0000
				CURRENT CONT QTY/UNIT:	2 P	2 P
01/08/91	000079				800.0000	0.0000
01/10/91	000079	000075	SH SOLVENT	9 ISAACSEN, SHERRY	0.0000	62.0000
				CURRENT CONT QTY/UNIT:	738 P	738 P
01/08/91	000080				85.0000	0.0000
				CURRENT CONT QTY/UNIT:	85 P	85 P
01/09/91	000081				1850.0000	0.0000
				CURRENT CONT QTY/UNIT:	185 G	1850 P

HMTS Final Report 43

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 62
PAGE#: 9

CONTAINERS HISTORY FROM: 01/01/91 TO 01/31/91

RCV/USED DATE	CONT#	PROD#	PRODUCT DESCRIPTION	EMPL/NAME	QUANTITY LBS RCVD	QUANTITY LBS USED
01/09/91	000082				214.5000	0.0000
				CURRENT CONT QTY/UNIT:	165 G	215 P
01/09/91	000083				1128.1340	0.0000
				CURRENT CONT QTY/UNIT:	35 L	1128 P
01/09/91	000084				92.4000	0.0000
				CURRENT CONT QTY/UNIT:	42 K	92 P
01/09/91	000085				299.6400	0.0000
				CURRENT CONT QTY/UNIT:	136 K	300 P
01/09/91	000086				36.2000	0.0000
				CURRENT CONT QTY/UNIT:	36 P	36 P
01/09/91	000087				4544.8000	0.0000
				CURRENT CONT QTY/UNIT:	1136 G	4545 P
01/09/91	000088				536.2000	0.0000
				CURRENT CONT QTY/UNIT:	536 P	536 P
01/09/91	000089				71.0000	0.0000
				CURRENT CONT QTY/UNIT:	1136 O	71 P
01/09/91	000090				68.2625	0.0000
				CURRENT CONT QTY/UNIT:	1092 O	68 P
01/10/91	000091				92.2000	0.0000
				CURRENT CONT QTY/UNIT:	92 P	92 P
01/10/91	000092				295.6792	0.0000
				CURRENT CONT QTY/UNIT:	12 G	296 P
01/10/91	000093				3.2625	0.0000
				CURRENT CONT QTY/UNIT:	52 O	3 P
01/10/91	000094				0.2277	0.0000

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 62
PAGE#: 10

CONTAINERS HISTORY FROM: 01/01/91 TO 01/31/91

RCV/USED DATE	CONT#	PROD#	PRODUCT DESCRIPTION	EMPL/NAME	QUANTITY LBS RCV'D	QUANTITY LBS USED
				CURRENT CONT QTY/UNIT:	104 R	0 P
01/10/91	000095				9912.5198	0.0000
				CURRENT CONT QTY/UNIT:	1104 L	9913 P
01/10/91	000096				227.7000	0.0000
				CURRENT CONT QTY/UNIT:	104 Q	228 P
01/10/91	000097				83.6550	0.0000
				CURRENT CONT QTY/UNIT:	304 T	84 P
01/10/91	000098				0.6468	0.0000
				CURRENT CONT QTY/UNIT:	4 Q	1 P
01/10/91	000099				91.9600	0.0000
				CURRENT CONT QTY/UNIT:	24 Q	92 P
01/10/91	000100				1414.1000	0.0000
				CURRENT CONT QTY/UNIT:	1414 P	1414 P

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 63
PAGE#: 1

MSDS INVENTORY: PRODUCTS ON HAND

HPID#	DESCRIPTION	CONT#	CONT STATUS	QUANTITY RECEIVED	QUANTITY USED	DATE RCV'D/USED
005012	BARIUM COMPOUNDS	000001	F 1 4	100.0000	0.0000	01/01/91
		000001	F 1 4	0.0000	10.0000	01/01/91
		000001	F 1 4	0.0000	0.0000	01/03/91
		000001	F 1 4	0.0000	0.0000	01/05/91
		000001	F 1 4	0.0000	0.0000	01/05/91
PRODUCT TOTAL POUNDS ON HAND:						90
005015	NICKEL PLATED ABRASIVE PRODUCTS	000002	D 1 4	123.2200	0.0000	01/01/91
		000002	D 1 4	0.0000	5.0000	01/01/91
		000002	D 1 4	0.0000	100.0000	01/09/91
		000009	K 1 4	10.0000	0.0000	01/01/91
		000009	K 1 4	0.0000	10.0000	01/01/91
		000016	D 1 4	200.0000	0.0000	01/02/91
		000016	D 1 4	0.0000	0.0000	01/03/91
		000016	D 1 4	0.0000	3.2555	01/03/91
		000016	D 1 4	0.0000	8.1387	01/06/91
		000016	D 1 4	0.0000	2.3104	01/07/91
		000016	D 1 4	0.0000	0.4621	01/09/91
		000016	D 1 4	0.0000	62.0000	01/10/91
		000030	Q 1 5	1320.0000	0.0000	01/03/91
		000030	Q 1 5	0.0000	0.7701	01/06/91
		000053	Q 1 4	2325.0000	0.0000	01/06/91
		000098	F 1 4	0.6468	0.0000	01/10/91
PRODUCT TOTAL POUNDS ON HAND:						3787
005016	INTERZINC SILICATE RED BINDER	000003	K 1 4	100.0000	0.0000	01/01/91
		000003	K 1 4	0.0000	20.0000	01/01/91
		000005	D 1 4	500.0000	0.0000	01/01/91
		000005	D 1 4	0.0000	12.0000	01/01/91
		000005	D 1 4	0.0000	488.0000	01/09/91
		000043	I 1 4	32.0000	0.0000	01/05/91
		000043	I 1 4	0.0000	32.0000	01/07/91
		000046	D 1 4	52.0000	0.0000	01/05/91
		000072	E 1 4	99.4400	0.0000	01/08/91
		000080	J 1 4	85.0000	0.0000	01/08/91
		000088	O 1 4	536.2000	0.0000	01/09/91
PRODUCT TOTAL POUNDS ON HAND:						853
005017	2-PHENYLPHENOL, 99%	000004	C 2 4	4400.0000	0.0000	01/01/91
		000004	C 2 4	0.0000	10.0000	01/01/91
		000004	C 2 4	0.0000	50.0000	01/03/91
		000006	D 1 4	1320.0000	0.0000	01/01/91
		000006	D 1 4	0.0000	34.0000	01/01/91
		000006	D 1 4	0.0000	22.0000	01/09/91
		000039	E 1 4	968.0000	0.0000	01/04/91
		000039	E 1 4	0.0000	10.0000	01/06/91
		000039	E 1 4	0.0000	958.0000	01/08/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 63
PAGE#: 2

MSDS INVENTORY: PRODUCTS ON HAND

HPID#	DESCRIPTION	CONT#	CONT STATUS	QUANTITY RECEIVED	QUANTITY USED	DATE RCVD/USED
		000063	H 1 4	110.0000	0.0000	01/07/91
		000096	C 1 4	227.7000	0.0000	01/10/91
				PRODUCT TOTAL POUNDS ON HAND:		5942
005018	GENETRON 113 TRICHLOROFLOURCETHANE	000007	K 1 4	50.0000	0.0000	01/01/91
		000007	K 1 4	0.0000	10.0000	01/01/91
		000007	K 1 4	0.0000	4.6000	01/04/91
		000007	K 1 4	0.0000	35.4000	01/09/91
		000010	C 2 4	1150.0000	0.0000	01/01/91
		000010	C 2 4	0.0000	1150.0000	01/01/91
		000017	D 2 4	80.0000	0.0000	01/02/91
		000017	D 2 4	0.0000	20.0000	01/04/91
		000017	D 2 4	0.0000	6.3250	01/07/91
		000017	D 2 4	0.0000	53.6750	01/10/91
		000028	L 1 4	100.0000	0.0000	01/03/91
		000028	L 1 4	0.0000	100.0000	01/03/91
		000031	H 1 4	20.0000	0.0000	01/04/91
		000031	H 1 4	0.0000	5.0000	01/04/91
		000031	H 1 4	0.0000	15.0000	01/04/91
		000045	K 1 4	330.0000	0.0000	01/07/91
		000045	K 1 4	0.0000	6.6125	01/08/91
		000084	I 1 5	92.4000	0.0000	01/09/91
				PRODUCT TOTAL POUNDS ON HAND:		416
005019	AQUA DIAMOND COOLANT	000008	D 1 4	71.5000	0.0000	01/01/91
		000008	D 1 4	0.0000	6.5000	01/01/91
		000058	H 1 4	0.6563	0.0000	01/06/91
		000082	E 1 4	214.5000	0.0000	01/09/91
		000085	I 1 5	299.6400	0.0000	01/09/91
				PRODUCT TOTAL POUNDS ON HAND:		580
005020	INORGANIC GLASS	000011	K 1 4	100.0000	0.0000	01/02/91
		000011	K 1 4	0.0000	12.0000	01/02/91
		000011	K 1 4	0.0000	88.0000	01/10/91
		000019	K 1 4	175.0000	0.0000	01/02/91
		000019	K 1 4	0.0000	0.5538	01/02/91
		000019	K 1 4	0.0000	174.4462	01/02/91
		000047	Q 1 4	1002.0000	0.0000	01/05/91
		000068	A 1 4	718.3763	0.0000	01/07/91
		000094	F 1 4	0.2277	0.0000	01/10/91
				PRODUCT TOTAL POUNDS ON HAND:		1721
005021	ANTI-FOULING BOTTOM PAINT	000012	F 1 4	500.0000	0.0000	01/02/91
		000029	F 1 4	200.0000	0.0000	01/03/91
		000029	F 1 4	0.0000	200.0000	01/04/91
		000042	C 1 4	5450.0000	0.0000	01/04/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 63
PAGE#: 3

MSDS INVENTORY: PRODUCTS ON HAND

HPID#	DESCRIPTION	CONT#	CONT STATUS	QUANTITY RECEIVED	QUANTITY USED	DATE RCVD/USED
		000042	C 1 4	0.0000	11.0000	01/07/91
		000069	F 1 4	17.0000	0.0000	01/07/91
		000081	E 1 4	1850.0000	0.0000	01/09/91
				PRODUCT TOTAL POUNDS ON HAND:		7806
005022	124 ENAMEL, HABITABILITY COLORS	000013	F 1 4	610.0000	0.0000	01/02/91
		000013	F 1 4	0.0000	80.0000	01/02/91
		000018	D 2 4	180.0000	0.0000	01/02/91
		000018	D 2 4	0.0000	32.0000	01/02/91
		000018	D 2 4	0.0000	12.0000	01/05/91
		000018	D 2 4	0.0000	8.2500	01/06/91
		000018	D 2 4	0.0000	127.7500	01/09/91
		000040	F 1 4	183.0000	0.0000	01/04/91
		000059	F 1 4	23.1000	0.0000	01/06/91
		000083	E 1 4	1128.1340	0.0000	01/09/91
		000090	H 1 4	68.2625	0.0000	01/09/91
				PRODUCT TOTAL POUNDS ON HAND:		1932
005023	GENTEX TC-60	000014	D 1 4	550.0000	0.0000	01/02/91
		000014	D 1 4	0.0000	45.0000	01/02/91
		000048	H 1 4	405.0000	0.0000	01/05/91
		000048	H 1 4	0.0000	1.0120	01/10/91
		000049	E 2 4	45.0000	0.0000	01/05/91
		000067	A 1 6	1330.0000	0.0000	01/07/91
		000099	F 1 4	91.9600	0.0000	01/10/91
				PRODUCT TOTAL POUNDS ON HAND:		2376
005024	FBI RECYCLED LACQUER THINNER	000015	A 1 4	0.0000	4.5650	01/02/91
		000015	A 1 4	4.5650	0.0000	01/02/91
		000020	E 1 4	0.8715	0.0000	01/02/91
		000020	E 1 4	0.0000	0.8715	01/03/91
		000054	D 1 4	2.6975	0.0000	01/06/91
		000066	H 1 4	266.8450	0.0000	01/07/91
		000074	H 1 4	0.0214	0.0000	01/08/91
		000091	E 1 4	92.2000	0.0000	01/10/91
		000100	Q 1 4	1414.1000	0.0000	01/10/91
				PRODUCT TOTAL POUNDS ON HAND:		1776
005025	INTERCLENE	000021	B 1 4	300.0000	0.0000	01/03/91
		000021	B 1 4	0.0000	10.0000	01/03/91
		000021	B 1 4	0.0000	0.2595	01/10/91
		000055	D 1 4	22.8500	0.0000	01/06/91
		000061	F 1 4	2.2506	0.0000	01/07/91
		000089	H 1 4	71.0000	0.0000	01/09/91
				PRODUCT TOTAL POUNDS ON HAND:		386

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 63
PAGE#: 4

MSDS INVENTORY: PRODUCTS ON HAND

HPID#	DESCRIPTION	CONT#	CONT STATUS	QUANTITY RECEIVED	QUANTITY USED	DATE RCVD/USED
005026	MD8733	000022	A 2 4	320.0000	0.0000	01/03/91
		000022	A 2 4	0.0000	20.0000	01/05/91
		000037	K 1 4	0.0000	17.5000	01/05/91
		000037	K 1 4	0.0000	102.5000	01/08/91
		000041	M 1 4	45.0000	0.0000	01/04/91
		000041	M 1 4	0.0000	30.0000	01/05/91
		000041	M 1 4	0.0000	15.0000	01/05/91
		000051	I 1 4	100.0000	0.0000	01/06/91
		000051	I 1 4	0.0000	54.0625	01/07/91
		000073	E 1 4	2688.1822	0.0000	01/08/91
				PRODUCT TOTAL POUNDS ON HAND:		3034
005027	INTERCARD EPOXY	000023	D 2 4	179.6560	0.0000	01/03/91
		000023	D 2 4	0.0000	10.0000	01/03/91
		000023	D 2 4	0.0000	169.6560	01/06/91
		000024	D 2 4	179.6560	0.0000	01/03/91
		000024	D 2 4	0.0000	179.6560	01/05/91
		000036	F 1 4	20.0000	0.0000	01/04/91
		000079	O 1 4	800.0000	0.0000	01/08/91
		000079	O 1 4	0.0000	62.0000	01/10/91
		000095	B 1 4	9912.5198	0.0000	01/10/91
				PRODUCT TOTAL POUNDS ON HAND:		10671
005028	MIL-P RED DYE	000025	D 1 5	75.0000	0.0000	01/03/91
		000034	F 1 4	11.0000	0.0000	01/04/91
		000034	F 1 4	0.0000	11.0000	01/04/91
		000052	K 1 4	125.0000	0.0000	01/06/91
		000086	K 1 5	36.2000	0.0000	01/09/91
				PRODUCT TOTAL POUNDS ON HAND:		236
005029	CGW #361 CLEAR CROWN SILICATE	000026	I 1 4	179.0000	0.0000	01/03/91
		000026	I 1 4	0.0000	10.0000	01/04/91
		000026	I 1 4	0.0000	100.0000	01/08/91
		000027	J 1 4	8.0625	0.0000	01/03/91
		000027	J 1 4	0.0000	8.0625	01/03/91
		000035	E 1 4	56.0000	0.0000	01/04/91
		000035	E 1 4	0.0000	22.0000	01/06/91
		000050	J 1 4	25.0000	0.0000	01/05/91
		000050	J 1 4	0.0000	25.0000	01/07/91
		000071	F 1 4	1725.6000	0.0000	01/08/91
				PRODUCT TOTAL POUNDS ON HAND:		1829
005030	POTASH SODALIME ZINC SILICATE	000038	K 1 4	120.0000	0.0000	01/04/91
		000038	K 1 4	10.0000	0.0000	01/04/91
		000038	K 1 4	0.0000	6.0000	01/04/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 63
PAGE#: 5

MSDS INVENTORY: PRODUCTS ON HAND

HPID#	DESCRIPTION	CONT#	CONT STATUS	QUANTITY RECEIVED	QUANTITY USED	DATE RCVD/USED
		000038	K 1 4	0.0000	4.0000	01/04/91
		000076	K 1 4	132.4400	0.0000	01/08/91
		000093	F 1 4	3.2625	0.0000	01/10/91
				PRODUCT TOTAL POUNDS ON HAND:		136
005031	INTERPLATE RED FERRO/ZINC SILICATE	000044	Q 2 4	1332.0000	0.0000	01/05/91
		000044	Q 2 4	0.0000	8.0000	01/07/91
		000056	H 1 4	1125.0000	0.0000	01/06/91
		000057	N 1 4	5.2500	0.0000	01/06/91
		000075	E 1 4	110.2000	0.0000	01/08/91
		000075	E 1 4	0.0000	10.0000	01/08/91
		000075	E 1 4	0.0000	7.0000	01/10/91
		000087	B 2 4	4544.8000	0.0000	01/09/91
				PRODUCT TOTAL POUNDS ON HAND:		7092
005032	INTERLAC BLACK ALKYD ENAMEL	000070	F 1 4	34.5400	0.0000	01/07/91
		000097	C 2 5	83.6550	0.0000	01/10/91
				PRODUCT TOTAL POUNDS ON HAND:		118
005033	ACETYLENE	000032	L 2 4	120.0000	0.0000	01/04/91
		000032	L 2 4	0.0000	100.0000	01/09/91
		000062	L 2 5	1996.3000	0.0000	01/07/91
				PRODUCT TOTAL POUNDS ON HAND:		2016
005034	EASTMAN POLYESTER RED 2G DYE	000033	F 1 4	242.3600	0.0000	01/04/91
		000033	F 1 4	0.0000	242.3600	01/06/91
		000045	Q 1 4	432.0000	0.0000	01/05/91
		000045	Q 1 4	0.0000	5.0000	01/05/91
		000060	F 1 4	2.3437	0.0000	01/06/91
		000064	H 1 4	302.9500	0.0000	01/07/91
		000077	K 1 4	1232.4400	0.0000	01/08/91
		000078	F 1 4	2.2000	0.0000	01/08/91
		000092	E 1 4	295.6792	0.0000	01/10/91
				PRODUCT TOTAL POUNDS ON HAND:		2263

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 1

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

HPID#: 005012 TRADE NAME: BARIUM COMPOUNDS
VOCs LBS/GAL: 4.0000 LBS/GAL
CATEGORY:
MARINE COATING RULE GRAMS/LITER:

DEPARTMENT: 0029 RIGGING

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	DATE	VOCs (LBS)
000001	01/01/91	5.0000

AREA TOTAL VOC EMISSIONS (LBS):	5
AREA TOTAL VOC EMISSIONS (GRAMS):	2273
DEPT TOTAL VOC EMISSIONS (LBS):	5
DEPT TOTAL VOC EMISSIONS (GRAMS):	2273

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 2

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

HPID#: 005018 TRADE NAME: GENETRON 113 TRICHLOROFLOUROETHANE
VOCs LBS/GAL: 0.9000 LBS/GAL
CATEGORY:
MARINE COATING RULE GRAMS/LITER:

DEPARTMENT: 0007 CARPENTRY

AREA: 0015 PIPE SHOP WATER FRONT TOOL BOOTH

CONT#	DATE	VOCs (LBS)
000065	01/08/91	2.5875

AREA TOTAL VOC EMISSIONS (LBS):	3
AREA TOTAL VOC EMISSIONS (GRAMS):	1176
DEPT TOTAL VOC EMISSIONS (LBS):	3
DEPT TOTAL VOC EMISSIONS (GRAMS):	1176

DEPARTMENT: 0008 ELECTRICAL

AREA: 0002 BLAST BOOTH

CONT#	DATE	VOCs (LBS)
000007	01/09/91	13.8520

AREA TOTAL VOC EMISSIONS (LBS):	14
AREA TOTAL VOC EMISSIONS (GRAMS):	6296

AREA: 0003 BUILDING 21 TOOL ROOM

CONT#	DATE	VOCs (LBS)
000007	01/04/91	1.8000

AREA TOTAL VOC EMISSIONS (LBS):	2
AREA TOTAL VOC EMISSIONS (GRAMS):	818

AREA: 0005 MAIN TOOL ROOM

CONT#	DATE	VOCs (LBS)
000007	01/01/91	3.9130

AREA TOTAL VOC EMISSIONS (LBS):	4
AREA TOTAL VOC EMISSIONS (GRAMS):	1779

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 3

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

DEPT TOTAL VOC EMISSIONS (LBS): 20
DEPT TOTAL VOC EMISSIONS (GRAMS): 8893

DEPARTMENT: 0011 TESTING

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	DATE	VOCS (LBS)
000028	01/03/91	39.1300

AREA TOTAL VOC EMISSIONS (LBS): 39
AREA TOTAL VOC EMISSIONS (GRAMS): 17786

AREA: 0012 WAREHOUSE 8 TOOL ROOM BIN 18

CONT#	DATE	VOCS (LBS)
000031	01/04/91	1.9565

AREA TOTAL VOC EMISSIONS (LBS): 2
AREA TOTAL VOC EMISSIONS (GRAMS): 889

AREA: 0015 PIPE SHOP WATER FRONT TOOL BOOTH

CONT#	DATE	VOCS (LBS)
000031	01/08/91	5.8695

AREA TOTAL VOC EMISSIONS (LBS): 6
AREA TOTAL VOC EMISSIONS (GRAMS): 2668

DEPT TOTAL VOC EMISSIONS (LBS): 47
DEPT TOTAL VOC EMISSIONS (GRAMS): 21344

DEPARTMENT: 0015 ENGINEERING

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	DATE	VOCS (LBS)
000010	01/01/91	449.9950

AREA TOTAL VOC EMISSIONS (LBS): 450
AREA TOTAL VOC EMISSIONS (GRAMS): 204543

DEPT TOTAL VOC EMISSIONS (LBS): 450
DEPT TOTAL VOC EMISSIONS (GRAMS): 204543

DEPARTMENT: 0019 FABRICATION

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 4

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

AREA: 0004 LAMINATING EAST SHOP FLOOR

CONT#	DATE	VOCS (LBS)
000017	01/10/91	21.0030

AREA TOTAL VOC EMISSIONS (LBS): 21
AREA TOTAL VOC EMISSIONS (GRAMS): 9547

AREA: 0007 QUALITY ASSURANCE LAB

CONT#	DATE	VOCS (LBS)
000017	01/04/91	7.8260

AREA TOTAL VOC EMISSIONS (LBS): 8
AREA TOTAL VOC EMISSIONS (GRAMS): 3557

AREA: 0019 GASOLINE STATION NUMBER 1

CONT#	DATE	VOCS (LBS)
000017	01/07/91	2.4750

AREA TOTAL VOC EMISSIONS (LBS): 2
AREA TOTAL VOC EMISSIONS (GRAMS): 1125

DEPT TOTAL VOC EMISSIONS (LBS): 31
DEPT TOTAL VOC EMISSIONS (GRAMS): 14229

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 5

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

HPID#: 005019 TRADE NAME: AQUA DIAMOND COOLANT
VOCs LBS/GAL: 0.4000 LBS/GAL
CATEGORY:
MARINE COATING RULE GRAMS/LITER:

DEPARTMENT: 0010 HULL

AREA: 0004 LAMINATING EAST SHOP FLOOR

CONT#	DATE	VOCs (LBS)
000008	01/01/91	2.0000

AREA TOTAL VOC EMISSIONS (LBS): 2
AREA TOTAL VOC EMISSIONS (GRAMS): 909

DEPT TOTAL VOC EMISSIONS (LBS): 2
DEPT TOTAL VOC EMISSIONS (GRAMS): 909

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 6

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

HPID#: 005020 TRADE NAME: INORGANIC GLASS
VOCs LBS/GAL: 0.2000 GRAMS/LITER
CATEGORY:
MARINE COATING RULE GRAMS/LITER:

DEPARTMENT: 0009 WELDING

AREA: 0002 BLAST BOOTH

CONT#	DATE	VOCs (LBS)
000019	01/02/91	1.0641

AREA TOTAL VOC EMISSIONS (LBS): 1
AREA TOTAL VOC EMISSIONS (GRAMS): 484

AREA: 0014 PIPE SHOP MAIN TOOL ROOM

CONT#	DATE	VOCs (LBS)
000019	01/02/91	0.0034

AREA TOTAL VOC EMISSIONS (LBS): 0
AREA TOTAL VOC EMISSIONS (GRAMS): 2

DEPT TOTAL VOC EMISSIONS (LBS): 1
DEPT TOTAL VOC EMISSIONS (GRAMS): 485

DEPARTMENT: 0012 BLASTING

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	DATE	VOCs (LBS)
000011	01/02/91	0.0732

AREA TOTAL VOC EMISSIONS (LBS): 0
AREA TOTAL VOC EMISSIONS (GRAMS): 33

AREA: 0021 ENGINEERING SUPPLY SHELF 17

CONT#	DATE	VOCs (LBS)
000011	01/10/91	0.5368

AREA TOTAL VOC EMISSIONS (LBS): 1
AREA TOTAL VOC EMISSIONS (GRAMS): 244

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 7

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

DEPT TOTAL VOC EMISSIONS (LBS): 1
DEPT TOTAL VOC EMISSIONS (GRAMS): 277

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 8

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

HPID#: 005021 TRADE NAME: ANTI-FOULING BOTTOM PAINT
VOCs LBS/GAL: 0.2000 GRAMS/LITER
CATEGORY:
MARINE COATING RULE GRAMS/LITER:

DEPARTMENT: 0003 OUTSIDE MACH

AREA: 0020 ENGINEERING SUPPLY SHELF 12

CONT#	DATE	VOCs (LBS)
000042	01/07/91	0.0022

AREA TOTAL VOC EMISSIONS (LBS): 0
AREA TOTAL VOC EMISSIONS (GRAMS): 1

DEPT TOTAL VOC EMISSIONS (LBS): 0
DEPT TOTAL VOC EMISSIONS (GRAMS): 1

DEPARTMENT: 0011 TESTING

AREA: 0016 INSULATING SHOP CRIB

CONT#	DATE	VOCs (LBS)
000029	01/08/91	0.0400

AREA TOTAL VOC EMISSIONS (LBS): 0
AREA TOTAL VOC EMISSIONS (GRAMS): 18

DEPT TOTAL VOC EMISSIONS (LBS): 0
DEPT TOTAL VOC EMISSIONS (GRAMS): 18

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 9

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

HPID#: 005022 TRADE NAME: 124 ENAMEL, HABITABILITY COLORS
VOCs LBS/GAL: 1.2000 GRAMS/LITER
CATEGORY:
MARINE COATING RULE GRAMS/LITER:

DEPARTMENT: 0010 HULL

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	DATE	VOCs (LBS)
000018	01/05/91	0.0096

AREA TOTAL VOC EMISSIONS (LBS): 0
AREA TOTAL VOC EMISSIONS (GRAMS): 4

AREA: 0002 BLAST BOOTH

CONT#	DATE	VOCs (LBS)
000018	01/02/91	0.0256

AREA TOTAL VOC EMISSIONS (LBS): 0
AREA TOTAL VOC EMISSIONS (GRAMS): 12

AREA: 0005 MAIN TOOL ROOM

CONT#	DATE	VOCs (LBS)
000018	01/06/91	0.0066

AREA TOTAL VOC EMISSIONS (LBS): 0
AREA TOTAL VOC EMISSIONS (GRAMS): 3

AREA: 0022 PAINT TEST AREA

CONT#	DATE	VOCs (LBS)
000018	01/09/91	0.1022

AREA TOTAL VOC EMISSIONS (LBS): 0
AREA TOTAL VOC EMISSIONS (GRAMS): 46

DEPT TOTAL VOC EMISSIONS (LBS): 0
DEPT TOTAL VOC EMISSIONS (GRAMS): 65

DEPARTMENT: 0013 QUALITY ASSURE.

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 10

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

AREA: 0021 ENGINEERING SUPPLY SHELF 17

CONT#	DATE	VOCs (LBS)
000013	01/02/91	0.0640

AREA TOTAL VOC EMISSIONS (LBS): 0
AREA TOTAL VOC EMISSIONS (GRAMS): 29

DEPT TOTAL VOC EMISSIONS (LBS): 0
DEPT TOTAL VOC EMISSIONS (GRAMS): 29

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 11

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

HPID#: 005023 TRADE NAME: GENTEX TC-60
VOCs LBS/GAL: 0.2000 LBS/GAL
CATEGORY:
MARINE COATING RULE GRAMS/LITER:

DEPARTMENT: 0014 INDUSTRIAL ENGR

AREA: 0002 BLAST BOOTH

CONT#	DATE	VOCs (LBS)
000048	01/10/91	0.0134

AREA TOTAL VOC EMISSIONS (LBS):	0
AREA TOTAL VOC EMISSIONS (GRAMS):	6
DEPT TOTAL VOC EMISSIONS (LBS):	0
DEPT TOTAL VOC EMISSIONS (GRAMS):	6

DEPARTMENT: 0015 ENGINEERING

AREA: 0003 BUILDING 21 TOOL ROOM

CONT#	DATE	VOCs (LBS)
000014	01/02/91	0.5940

AREA TOTAL VOC EMISSIONS (LBS):	1
AREA TOTAL VOC EMISSIONS (GRAMS):	270
DEPT TOTAL VOC EMISSIONS (LBS):	1
DEPT TOTAL VOC EMISSIONS (GRAMS):	270

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 12

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

HPID#: 005024 TRADE NAME: PBI RECYCLED LACQUER THINNER
VOCs LBS/GAL: 0.2000 GRAMS/LITER
CATEGORY:
MARINE COATING RULE GRAMS/LITER:

DEPARTMENT: 0009 WELDING

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	DATE	VOCs (LBS)
000020	01/03/91	0.1785

AREA TOTAL VOC EMISSIONS (LBS):	0
AREA TOTAL VOC EMISSIONS (GRAMS):	81
DEPT TOTAL VOC EMISSIONS (LBS):	0
DEPT TOTAL VOC EMISSIONS (GRAMS):	81

DEPARTMENT: 0012 BLASTING

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	DATE	VOCs (LBS)
000015	01/02/91	0.9349

AREA TOTAL VOC EMISSIONS (LBS):	1
AREA TOTAL VOC EMISSIONS (GRAMS):	425
DEPT TOTAL VOC EMISSIONS (LBS):	1
DEPT TOTAL VOC EMISSIONS (GRAMS):	425

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 13

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

HPID#: 005027 TRADE NAME: INTERGARD EPOXY
VOCs LBS/GAL: 0.0100 LBS/GAL
CATEGORY:
MARINE COATING RULE GRAMS/LITER:

DEPARTMENT: 0011 TESTING

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	DATE	VOCs (LBS)
000023	01/03/91	0.0290
000024	01/05/91	0.5210

AREA TOTAL VOC EMISSIONS (LBS): 1
AREA TOTAL VOC EMISSIONS (GRAMS): 250

AREA: 0005 MAIN TOOL ROOM

CONT#	DATE	VOCs (LBS)
000023	01/06/91	0.4920

AREA TOTAL VOC EMISSIONS (LBS): 0
AREA TOTAL VOC EMISSIONS (GRAMS): 224
DEPT TOTAL VOC EMISSIONS (LBS): 1
DEPT TOTAL VOC EMISSIONS (GRAMS): 474

DEPARTMENT: 0023 QUALITY CIRCLES

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	DATE	VOCs (LBS)
000079	01/10/91	0.1798

AREA TOTAL VOC EMISSIONS (LBS): 0
AREA TOTAL VOC EMISSIONS (GRAMS): 82
DEPT TOTAL VOC EMISSIONS (LBS): 0
DEPT TOTAL VOC EMISSIONS (GRAMS): 82

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 14

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

HPID#: 005028 TRADE NAME: MIL-P RED DYE
VOCs LBS/GAL: 0.0100 LBS/GAL
CATEGORY:
MARINE COATING RULE GRAMS/LITER:

DEPARTMENT: 0011 TESTING

AREA: 0002 BLAST BOOTH

CONT#	DATE	VOCs (LBS)
000034	01/04/91	0.1001

AREA TOTAL VOC EMISSIONS (LBS): 0
AREA TOTAL VOC EMISSIONS (GRAMS): 46

DEPT TOTAL VOC EMISSIONS (LBS): 0
DEPT TOTAL VOC EMISSIONS (GRAMS): 46

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 15

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

HPID#: 005029 TRADE NAME: CGW 8361 CLEAR CROWN SILICATE
VOCs LBS/GAL: 0.0100 LBS/GAL
CATEGORY:
MARINE COATING RULE GRAMS/LITER:

DEPARTMENT: 0006 INSULATING

AREA: 0002 BLAST BOOTH

CONT#	DATE	VOCS (LBS)
000026	01/08/91	1.2500
AREA TOTAL VOC EMISSIONS (LBS):		1
AREA TOTAL VOC EMISSIONS (GRAMS):		568

AREA: 0011 WAREHOUSE 8 TOOL ROOM BIN 17

CONT#	DATE	VOCS (LBS)
000026	01/04/91	0.1250
AREA TOTAL VOC EMISSIONS (LBS):		0
AREA TOTAL VOC EMISSIONS (GRAMS):		57
DEPT TOTAL VOC EMISSIONS (LBS):		1
DEPT TOTAL VOC EMISSIONS (GRAMS):		625

DEPARTMENT: 0011 TESTING

AREA: 0011 WAREHOUSE 8 TOOL ROOM BIN 17

CONT#	DATE	VOCS (LBS)
000027	01/03/91	0.1008
AREA TOTAL VOC EMISSIONS (LBS):		0
AREA TOTAL VOC EMISSIONS (GRAMS):		46
DEPT TOTAL VOC EMISSIONS (LBS):		0
DEPT TOTAL VOC EMISSIONS (GRAMS):		46

DEPARTMENT: 0014 INDUSTRIAL ENGR

AREA: 0024 HULL 0006 AFT DECK BINS

CONT#	DATE	VOCS (LBS)
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TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 16

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

000050	01/07/91	0.3125
AREA TOTAL VOC EMISSIONS (LBS):		0
AREA TOTAL VOC EMISSIONS (GRAMS):		142
DEPT TOTAL VOC EMISSIONS (LBS):		0
DEPT TOTAL VOC EMISSIONS (GRAMS):		142

DEPARTMENT: 0027 PURCHASING

AREA: 0027 GRAVING DRYDOCK

CONT#	DATE	VOCS (LBS)
000035	01/06/91	0.2750
AREA TOTAL VOC EMISSIONS (LBS):		0
AREA TOTAL VOC EMISSIONS (GRAMS):		125
DEPT TOTAL VOC EMISSIONS (LBS):		0
DEPT TOTAL VOC EMISSIONS (GRAMS):		125

TIER TWO - EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY
SPECIFIC INFORMATION BY CHEMICAL
REPORTING PERIOD: 10191 TO 123191

REPORT DATE: 01/15/92
REPORT#: 65

FACILITY IDENTIFICATION

TEST COMPANY NAME, INC.
1 HARBOR DRIVE

PLATTEVILLE, WI 53818-0000

SIC CODE: 5381 DUN & BRAD NUMBER: 12-123-1231

EMERGENCY CONTACT

TOM JONES OPER MGR 608-348-8815 24HR: 608-348-8816

BRUCE CLARK ENVR MGR 608-348-9912 24HR: 608-348-8812

PLANT OR SITE ID: MAIN

CHEMICAL DESCRIPTION TRADE SECRET: Y
CAS#: 83329 CHEMICAL NAME: ACENAPHTHENE
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS
FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 87.0 AVG. DAILY AMOUNT: 85.0 NO. DAYS ON-SITE: 364.0
174.0 170.0

STORAGE CODES AND LOCATIONS: D 1 4 PAINT DEPARTMENT SMALL PARTS ROOM
E 1 4 PAINT TEST AREA
I 1 5 WAREHOUSE 8 TOOL ROOM BIN 17
N 1 4 DIPPING BOOTH

CHEMICAL DESCRIPTION TRADE SECRET: N
CAS#: 64197 CHEMICAL NAME: ACETIC ACID, GLACIAL
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS
FIRE: X SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 124.0 AVG. DAILY AMOUNT: 106.0 NO. DAYS ON-SITE: 364.0
186.0 158.0

STORAGE CODES AND LOCATIONS: C 2 4 PAINT DEPARTMENT SMALL PARTS ROOM
D 2 4 LAMINATING EAST SHOP FLOOR
I 1 5 WAREHOUSE 8 TOOL ROOM BIN 17
K 1 4 BLAST BOOTH
K 1 4 PIPE SHOP WATER FRONT TOOL BOOTH
L 1 4 PAINT DEPARTMENT SMALL PARTS ROOM

H 1 4 PIPE SHOP WATER FRONT TOOL BOOTH

CHEMICAL DESCRIPTION TRADE SECRET: N
CAS#: 50782 CHEMICAL NAME: ACETYL SALICYLIC ACID
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS
FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 1777.0 AVG. DAILY AMOUNT: 1763.0 NO. DAYS ON-SITE: 360.0
2133.0 2115.0

STORAGE CODES AND LOCATIONS: B 2 4 INSULATING SHOP CRIB
E 1 4 QUALITY ASSURANCE LAB
N 1 4 PIPE SHOP MAIN TOOL ROOM
N 1 4 HULL 0006 AFT DECK BINS
Q 2 4 PAINT TEST AREA

CHEMICAL DESCRIPTION TRADE SECRET: N
CAS#: 2429803 CHEMICAL NAME: C.I. ACID ORANGE 45
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS
FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 49.0 AVG. DAILY AMOUNT: 49.0 NO. DAYS ON-SITE: 362.0
62.0 61.0

STORAGE CODES AND LOCATIONS: D 1 5 BUILDING 21 TOOL ROOM
F 1 4 BLAST BOOTH
K 1 4 QUALITY ASSURANCE LAB
K 1 5 ENGINEERING SUPPLY SHELF 17

CHEMICAL DESCRIPTION TRADE SECRET: Y
CAS#: 3567855 CHEMICAL NAME: C.I. ACID RED 85
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS
FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 2041.0 AVG. DAILY AMOUNT: 2025.0 NO. DAYS ON-SITE: 361.0
2154.0 2138.0

STORAGE CODES AND LOCATIONS: E 1 4 WAREHOUSE 8 TOOL ROOM BIN 22
F 1 4 PAINT DEPARTMENT SMALL PARTS ROOM
F 1 4 DIPPING BOOTH
F 1 4 PAINT TEST AREA
K 1 4 WAREHOUSE 8 TOOL ROOM BIN 18
H 1 4 INSULATING SHOP CRIB
Q 1 4 BUILDING 21 TOOL ROOM

CHEMICAL DESCRIPTION TRADE SECRET: N
CAS#: 107029 CHEMICAL NAME: ACROLEIN
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS

FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): X DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 62.0 AVG. DAILY AMOUNT: 53.0 NO. DAYS ON-SITE: 364.0
124.0 106.0

STORAGE CODES AND LOCATIONS: C 2 4 PAINT DEPARTMENT SMALL PARTS ROOM
D 2 4 LAMINATING EAST SHOP FLOOR
I 1 5 WAREHOUSE 8 TOOL ROOM BIN 17
K 1 4 BLAST BOOTH
K 1 4 PIPE SHOP WATER FRONT TOOL BOOTH
L 1 4 PAINT DEPARTMENT SMALL PARTS ROOM
M 1 4 PIPE SHOP WATER FRONT TOOL BOOTH

CHEMICAL DESCRIPTION TRADE SECRET: N

CAS#: 23214928 CHEMICAL NAME: ADRIAMYCIN
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS

FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 97.0 AVG. DAILY AMOUNT: 96.0 NO. DAYS ON-SITE: 364.0
194.0 193.0

STORAGE CODES AND LOCATIONS: F 1 4 GASOLINE STATION NUMBER 1
K 1 4 BLAST BOOTH
K 1 4 PIPE SHOP MAIN TOOL ROOM

CHEMICAL DESCRIPTION TRADE SECRET: Y

CAS#: 7220817 CHEMICAL NAME: AFLATOXIN B2
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS

FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 30.0 AVG. DAILY AMOUNT: 29.0 NO. DAYS ON-SITE: 358.0
47.0 47.0

STORAGE CODES AND LOCATIONS: C 2 5 BUILDING 21 TOOL ROOM
F 1 4 HULL 0007 AFT DECK BINS

CHEMICAL DESCRIPTION TRADE SECRET: N

CAS#: 107379 CHEMICAL NAME: ALLYL TRICHLOROSILANE
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS

FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 1190.0 AVG. DAILY AMOUNT: 1180.0 NO. DAYS ON-SITE: 363.0
1901.0 1884.0

STORAGE CODES AND LOCATIONS: A 2 4 WAREHOUSE 8 TOOL ROOM BIN 22
C 1 4 ENGINEERING SUPPLY SHELF 12
E 1 4 WAREHOUSE 8 TOOL ROOM BIN 17
E 1 4 PAINT TEST AREA
F 1 4 MAIN TOOL ROOM
F 1 4 INSULATING SHOP CRIB
F 1 4 RIGGING BACK OFFICE
I 1 4 HULL 0006 AFT DECK BINS
K 1 4 QUALITY ASSURANCE LAB
M 1 4 PAINT DEPARTMENT SMALL PARTS ROOM

CHEMICAL DESCRIPTION TRADE SECRET: N

CAS#: 561784 CHEMICAL NAME: ALPHAPRODINE HYDROCHLORIDE
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS

FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 119.0 AVG. DAILY AMOUNT: 118.0 NO. DAYS ON-SITE: 362.0
218.0 217.0

STORAGE CODES AND LOCATIONS: B 1 4 DIPPING BOOTH
D 1 4 LAMINATING EAST SHOP FLOOR
F 1 4 WAREHOUSE 8 TOOL ROOM BIN 22
N 1 4 RIGGING BACK OFFICE

CHEMICAL DESCRIPTION TRADE SECRET: N

CAS#: 28981977 CHEMICAL NAME: ALPRAZOLAM
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS

FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 1066.0 AVG. DAILY AMOUNT: 1058.0 NO. DAYS ON-SITE: 360.0
2133.0 2115.0

STORAGE CODES AND LOCATIONS: B 2 4 INSULATING SHOP CRIB
E 1 4 QUALITY ASSURANCE LAB
N 1 4 PIPE SHOP MAIN TOOL ROOM
N 1 4 HULL 0006 AFT DECK BINS
Q 2 4 PAINT TEST AREA

CHEMICAL DESCRIPTION TRADE SECRET: N

CAS#: 140807 CHEMICAL NAME: 2-AMINO-5-DIETHYLAMINOPENTANE
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS

FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 73.0 AVG. DAILY AMOUNT: 72.0 NO. DAYS ON-SITE: 361.0
87.0 87.0

STORAGE CODES AND LOCATIONS: F 1 4 GASOLINE STATION NUMBER 1
K 1 4 BLAST BOOTH
K 1 4 PIPE SHOP MAIN TOOL ROOM

CHEMICAL DESCRIPTION TRADE SECRET: N
CAS#: 117793 CHEMICAL NAME: 2-AMINOANTHRACQUINONE
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS

FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 995.0 AVG. DAILY AMOUNT: 980.0 NO. DAYS ON-SITE: 363.0
1213.0 1194.0

STORAGE CODES AND LOCATIONS: A 1 4 WAREHOUSE 8 TOOL ROOM BIN 17
B 1 4 DIPPING BOOTH
D 1 4 LUMINATING EAST SHOP FLOOR
D 1 4 QUALITY ASSURANCE LAB
E 1 4 PAINT DEPARTMENT SMALL PARTS ROOM
E 1 4 WAREHOUSE 8 TOOL ROOM BIN 22
F 1 4 WAREHOUSE 8 TOOL ROOM BIN 22
H 1 4 WAREHOUSE 8 TOOL ROOM BIN 18
H 1 4 PAINT DEPARTMENT SMALL PARTS ROOM
N 1 4 RIGGING BACK OFFICE
Q 1 4 PIPE SHOP MAIN TOOL ROOM

CHEMICAL DESCRIPTION TRADE SECRET: Y
CAS#: 110769 CHEMICAL NAME: AMINOETHANOL
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS

FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): X DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 320.0 AVG. DAILY AMOUNT: 312.0 NO. DAYS ON-SITE: 364.0
349.0 341.0

STORAGE CODES AND LOCATIONS: D 1 4 PAINT DEPARTMENT SMALL PARTS ROOM
E 1 4 PAINT TEST AREA
I 1 5 WAREHOUSE 8 TOOL ROOM BIN 17
H 1 4 DIPPING BOOTH

CHEMICAL DESCRIPTION TRADE SECRET: N
CAS#: 111411 CHEMICAL NAME: 2-((2-AMINOETHYL)AMINO)ETHANOL
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS

FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 363.0 AVG. DAILY AMOUNT: 360.0 NO. DAYS ON-SITE: 363.0
630.0 624.0

STORAGE CODES AND LOCATIONS: A 1 6 RIGGING BACK OFFICE
D 1 4 MACHING TOOL ROOM
E 2 4 WAREHOUSE 8 TOOL ROOM BIN 16
F 1 4 WAREHOUSE 8 TOOL ROOM BIN 22
H 1 4 BLAST BOOTH

CHEMICAL DESCRIPTION TRADE SECRET: N
CAS#: 1111780 CHEMICAL NAME: AMMONIUM CARBAMATE
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS

FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 49.0 AVG. DAILY AMOUNT: 49.0 NO. DAYS ON-SITE: 362.0
62.0 61.0

STORAGE CODES AND LOCATIONS: D 1 5 BUILDING 21 TOOL ROOM
F 1 4 BLAST BOOTH
K 1 4 QUALITY ASSURANCE LAB
K 1 5 ENGINEERING SUPPLY SHELF 17

CHEMICAL DESCRIPTION TRADE SECRET: N
CAS#: 1344281 CHEMICAL NAME: A-ALUMINA
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS

FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 314.0 AVG. DAILY AMOUNT: 301.0 NO. DAYS ON-SITE: 362.0
470.0 451.0

STORAGE CODES AND LOCATIONS: A 2 4 WAREHOUSE 8 TOOL ROOM BIN 22
E 1 4 WAREHOUSE 8 TOOL ROOM BIN 17
I 1 4 HULL 0006 AFT DECK BINS
K 1 4 QUALITY ASSURANCE LAB
H 1 4 PAINT DEPARTMENT SMALL PARTS ROOM

CHEMICAL DESCRIPTION TRADE SECRET: N
CAS#: 1752303 CHEMICAL NAME: ACETONE THIOSEMICARBAZIDE
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS

FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 62.0 AVG. DAILY AMOUNT: 53.0 NO. DAYS ON-SITE: 364.0
124.0 106.0

STORAGE CODES AND LOCATIONS: C 2 4 PAINT DEPARTMENT SMALL PARTS ROOM
D 2 4 LAMINATING EAST SHOP FLOOR
I 1 5 WAREHOUSE 8 TOOL ROOM BIN 17
K 1 4 BLAST BOOTH
K 1 4 PIPE SHOP WATER FRONT TOOL BOOTH
L 1 4 PAINT DEPARTMENT SMALL PARTS ROOM
M 1 4 PIPE SHOP WATER FRONT TOOL BOOTH

CHEMICAL DESCRIPTION TRADE SECRET: N
CAS#: 12842599 CHEMICAL NAME: AMMONIUM BROMATE
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS
FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 2113.0 AVG. DAILY AMOUNT: 2071.0 NO. DAYS ON-SITE: 362.0
2641.0 2589.0

STORAGE CODES AND LOCATIONS: B 1 4 WAREHOUSE 8 TOOL ROOM BIN 18
D 2 4 PAINT DEPARTMENT SMALL PARTS ROOM
D 2 4 MAIN TOOL ROOM
F 1 4 PAINT DEPARTMENT SMALL PARTS ROOM
O 1 4 PAINT DEPARTMENT SMALL PARTS ROOM

CHEMICAL DESCRIPTION TRADE SECRET: Y
CAS#: 0 CHEMICAL NAME: ACID MIXTURES, NITRATING
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS
FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 58.0 AVG. DAILY AMOUNT: 57.0 NO. DAYS ON-SITE: 364.0
174.0 170.0

STORAGE CODES AND LOCATIONS: D 1 4 PAINT DEPARTMENT SMALL PARTS ROOM
E 1 4 PAINT TEST AREA
I 1 5 WAREHOUSE 8 TOOL ROOM BIN 17
N 1 4 DIPPING BOOTH

CHEMICAL DESCRIPTION TRADE SECRET: N
CAS#: 0 CHEMICAL NAME: ALDEHYDE, TOXIC, N.O.S.
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS
FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 382.0 AVG. DAILY AMOUNT: 287.0 NO. DAYS ON-SITE: 364.0
472.0 370.0

STORAGE CODES AND LOCATIONS: D 1 4 LAMINATING EAST SHOP FLOOR
D 1 4 PIPE SHOP WATER FRONT TOOL BOOTH
D 2 4 PAINT TEST AREA
E 1 4 WAREHOUSE 8 TOOL ROOM BIN 22
E 1 4 ENGINEERING SUPPLY SHELF 17
F 1 4 PAINT DEPARTMENT SMALL PARTS ROOM
F 1 4 DIPPING BOOTH
F 1 4 WAREHOUSE 8 TOOL ROOM BIN 18
I 1 4 WAREHOUSE 8 TOOL ROOM BIN 16
J 1 4 HULL 55 BELOW DECK GANG BOX
K 1 4 MACHING TOOL ROOM
N 1 4 PIPE SHOP WATER FRONT TOOL BOOTH
O 1 4 RIGGING BACK OFFICE

CHEMICAL DESCRIPTION TRADE SECRET: N
CAS#: 0 CHEMICAL NAME: ALKALI METAL AMIDES, N.O.S.
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS
FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 539.0 AVG. DAILY AMOUNT: 530.0 NO. DAYS ON-SITE: 363.0
979.0 962.0

STORAGE CODES AND LOCATIONS: A 1 4 PIPE SHOP WATER FRONT TOOL BOOTH
C 1 4 ENGINEERING SUPPLY SHELF 12
E 1 4 PAINT TEST AREA
F 1 4 MAIN TOOL ROOM
F 1 4 INSULATING SHOP CRIB
F 1 4 RIGGING BACK OFFICE
F 1 4 GASOLINE STATION NUMBER 1
K 1 4 BLAST BOOTH
K 1 4 ENGINEERING SUPPLY SHELF 17
O 1 4 PIPE SHOP MAIN TOOL ROOM

CHEMICAL DESCRIPTION TRADE SECRET: N
CAS#: 0 CHEMICAL NAME: ALKYLAMINES OR POLYALKYLAMINES, FLASHPOINT ABOVE 23C & BOILING POINT 35 TO 200C
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS
FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 87.0 AVG. DAILY AMOUNT: 38.0 NO. DAYS ON-SITE: 364.0
131.0 57.0

STORAGE CODES AND LOCATIONS: D 1 4 LAMINATING EAST SHOP FLOOR
D 1 4 PIPE SHOP WATER FRONT TOOL BOOTH
E 1 4 ENGINEERING SUPPLY SHELF 17
I 1 4 WAREHOUSE 8 TOOL ROOM BIN 16
J 1 4 HULL 55 BELOW DECK GANG BOX
K 1 4 MACHING TOOL ROOM
O 1 4 RIGGING BACK OFFICE

CHEMICAL DESCRIPTION TRADE SECRET: N
CAS#: 0 CHEMICAL NAME: ALUMINUM ALKYL CHLORIDE
PURE: X MIX: SOLID: LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS

FIRE: SUDDEN REL OF PRESSURE: REACTIVITY: IMMEDIATE (ACUTE): DELAYED (CHRONIC):

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 91.0 AVG. DAILY AMOUNT: 86.0 NO. DAYS ON-SITE: 363.0
182.0 172.0

STORAGE CODES AND LOCATIONS: A 1 4 PIPE SHOP WATER FRONT TOOL BOOTH
F 1 4 GASOLINE STATION NUMBER 1
K 1 4 BLAST BOOTH
K 1 4 ENGINEERING SUPPLY SHELF 17
Q 1 4 PIPE SHOP MAIN TOOL ROOM

CHEMICAL DESCRIPTION TRADE SECRET: N

CAS#: 7740020 CHEMICAL NAME: NICKEL METAL
PURE: X MIX: SOLID: X LIQUID: GAS:

PHYSICAL AND HEALTH HAZARDS

FIRE: X SUDDEN REL OF PRESSURE: X REACTIVITY: X IMMEDIATE (ACUTE): X DELAYED (CHRONIC): X

INVENTORY (LOW/HIGH)

MAX DAILY AMOUNT: 1733.0 AVG. DAILY AMOUNT: 1649.0 NO. DAYS ON-SITE: 364.0
2118.0 2016.0

STORAGE CODES AND LOCATIONS: D 1 4 MAIN TOOL ROOM
D 1 4 PAINT TEST AREA
F 1 4 BUILDING 21 TOOL ROOM
K 1 4 WAREHOUSE 8 TOOL ROOM BIN 17
O 1 4 RIGGING BACK OFFICE
Q 1 5 ENGINEERING SUPPLY SHELF 12

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92

REPORT#: 66

PAGE#: 1

COMPARISON OF YARD CONTAINERS VS EQUIVALENT SYSTEM CONTAINERS

AUDIT DATE: 01/10/91

	CONTAINER#	AREA	QUANTITY	UNIT	POUNDS ON HAND	HMTS DEPT	POUNDS DIFF
YARD:	000081	0022	100.0	G	1000.0000		
HMTS:	000081	0022	185.0	G	1850.0000	0023	850.0000
YARD:	000082	0022	165.0	G	214.5000		
HMTS:	000082	0022	165.0	G	214.5000	0020	0.0000
YARD:	000083	0013	25.0	L	805.8100		
HMTS:	000083	0013	35.0	L	1128.1340	0020	322.3240
YARD:	000084	0011	136.0	K	299.2000		
HMTS:	000084	0011	42.0	K	92.4000	0010	-206.8000
YARD:	000086	0021	0.0	P	0.0000		
HMTS:	000086	0021	36.2	P	36.2000	0010	36.2000
YARD:	000087	0016	1136.0	G	4544.0000		
HMTS:	000087	0016	1136.2	G	4544.8000	0013	0.8000
YARD:	000088	0018	500.0	P	500.0000		
HMTS:	000088	0018	536.2	P	536.2000	0003	36.2000
YARD:	000089	0018	1000.0	O	62.5000		
HMTS:	000089	0018	1136.0	O	71.0000	0003	8.5000
YARD:	000090	0015	1000.0	O	62.5000		
HMTS:	000090	0015	1092.2	O	68.2625	0003	5.7625

ABSOLUTE POUNDS DIFFERENCE: 1466.5865

NOTE: REPORT ONLY REFLECTS THOSE CONTAINERS FOUND DURING THE AUDIT.

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 67
PAGE#: 1

LOCALLY ADDED CHEMICALS

CHEM ID#: 010013 CAS#: 7740020 CUM FORM:
CHEMICAL NAME: NICKEL METAL
HMIS (HEALTH, FLAMMABILITY, REACTIVITY, PERSONAL PROTECTION): 3 0 1 E
NFPA (HEALTH, FIRE, REACTIVITY, SPECIAL NOTICE): 3 0 1 7
TIER II (FIRE HAZARD, SUDDEN PRESSURE, REACTIVITY, ACUTE HEALTH, DELAYED HEALTH SPECIAL NOTICE): N N N Y
CURRENT STATE: PURE: P MIX: SOLID: S LIQUID: GAS:
DENSITY (G/CC): VOC'S: NON-CHEMMASTER CHEMICAL: Y

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 68
PAGE#: 1

CONTAINERS THAT HAVE EXPIRED OR ARE NEARING EXPIRATION WRT SHELF LIFE

CNT ID#	HP ID#	PRODUCT NAME	SHELF LIFE	30-60 DAYS LEFT	0-29 DAYS LEFT	DAYS	CURRENT AMT IN CNTR	UNIT	EQUIV POUNDS
000012									
000039	005017	2-PHENYLPHENOL, 99%	01/04/92	EXPIRED	-10		0.0	G	0.0000
000032	005033	ACETYLENE	01/04/92	EXPIRED	-10		20.0	P	20.0000
000033	005034	EASTMAN POLYESTER RED 2G DYE	01/04/92	EXPIRED	-10		0.0	G	0.0000
000040	005022	124 ENAMEL, HABITABILITY COLORS	01/04/92	EXPIRED	-10		15.0	G	183.0000
000037	005026	MD8733	01/04/92	EXPIRED	-10		0.0	P	0.0000
000036	005027	INTERGARD EPOXY	01/04/92	EXPIRED	-10		20.0	P	20.0000
000034	005028	MIL-P RED DYE	01/04/92	EXPIRED	-10		0.0	G	0.0000
000035	005029	CGW 8361 CLEAR CROWN SILICATE	01/04/92	EXPIRED	-10		42.5	G	34.0000
000038	005030	POTASH SODALIME ZINC SILICATE	01/04/92	EXPIRED	-10		0.0	P	0.0000
000022	005026	MD8733	01/03/92	EXPIRED	-11		300.0	P	300.0000
000023	005027	INTERGARD EPOXY	01/03/92	EXPIRED	-11		0.0	L	0.0000
000021	005025	INTERCLENE	01/03/92	EXPIRED	-11		289.7	P	289.7405
000024	005027	INTERGARD EPOXY	01/03/92	EXPIRED	-11		0.0	L	0.0000
000027	005029	CGW 8361 CLEAR CROWN SILICATE	01/03/92	EXPIRED	-11		0.0	O	0.0000
000026	005029	CGW 8361 CLEAR CROWN SILICATE	01/03/92	EXPIRED	-11		69.0	P	69.0000
000025	005028	MIL-P RED DYE	01/03/92	EXPIRED	-11		75.0	P	75.0000
000016	005015	NICKEL PLATED ABRASIVE PRODUCTS	01/02/92	EXPIRED	-12		123.6	P	123.8333
000010	005018	GENETRON 113 TRICHLOROFLOUROETHANE	12/15/91	EXPIRED	-30		0.0	G	0.0000
000009	005015	NICKEL PLATED ABRASIVE PRODUCTS	12/15/91	EXPIRED	-30		0.0	P	0.0000
000049	005023	GENTEX TC-60	12/05/91	EXPIRED	-40		45.0	P	45.0000
000048	005023	GENTEX TC-60	12/05/91	EXPIRED	-40		403.9	P	403.9880
000047	005020	INORGANIC GLASS	12/05/91	EXPIRED	-40		1002.0	P	1002.0000
000046	005016	INTERZINC SILICATE RED BINDER	12/05/91	EXPIRED	-40		52.0	P	52.0000
000050	005029	CGW 8361 CLEAR CROWN SILICATE	12/05/91	EXPIRED	-40		0.0	P	0.0000
000008	005019	AQUA DIAMOND COOLANT	09/15/91	EXPIRED	-121		50.0	G	65.0000
000007	005018	GENETRON 113 TRICHLOROFLOUROETHANE	06/15/91	EXPIRED	-213		0.0	P	0.0000
000044	005031	INTERPLATE RED FERRO/ZINC SILICATE	06/05/91	EXPIRED	-223		1324.0	P	1324.0000
000043	005016	INTERZINC SILICATE RED BINDER	06/05/91	EXPIRED	-223		0.0	P	0.0000
000045	005034	EASTMAN POLYESTER RED 2G DYE	06/05/91	EXPIRED	-223		427.0	P	427.0000
000042	005021	ANTI-FOULING BOTTOM PAINT	06/05/91	EXPIRED	-223		543.9	G	5439.0000
000041	005026	MD8733	06/04/91	EXPIRED	-224		0.0	P	0.0000
000006	005017	2-PHENYLPHENOL, 99%	03/15/91	EXPIRED	-305		143.6	G	1264.0000
000031	005018	GENETRON 113 TRICHLOROFLOUROETHANE	03/04/91	EXPIRED	-316		0.0	P	0.0000
000030	005015	NICKEL PLATED ABRASIVE PRODUCTS	03/03/91	EXPIRED	-317		1319.2	P	1319.2299
000028	005018	GENETRON 113 TRICHLOROFLOUROETHANE	03/03/91	EXPIRED	-317		0.0	P	0.0000
000029	005021	ANTI-FOULING BOTTOM PAINT	03/03/91	EXPIRED	-317		0.0	G	0.0000
000019	005020	INORGANIC GLASS	03/01/91	EXPIRED	-319		0.0	P	0.0000
000020	005024	FBI RECYCLED LACQUER THINNER	03/01/91	EXPIRED	-319		0.0	G	0.0000
000005	005016	INTERZINC SILICATE RED BINDER	02/05/91	EXPIRED	-343		0.0	G	0.0000
000004	005017	2-PHENYLPHENOL, 99%	01/05/91	EXPIRED	-374		493.1	G	4340.0000

30-60 DAYS REMAINING (POUNDS): 0
0-29 DAYS REMAINING (POUNDS): 0
EXPIRED (POUNDS): 16796

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 69
PAGE#: 1

CONTAINERS THAT WERE MOVED OR DRAWN DOWN BY EMPLOYEES FROM INVALID DEPTS

CNT#	HPID#	PROC AREA	EMPL	DEPT	DATE	USED POUNDS	VOC AMT POUNDS
000075	005031	0023 0007	3	0003	01/10/91	7.0000	0.0000
000016	005015	0014 0022	5	0004	01/10/91	62.0000	0.0000
000048	005023	0018 0002	6	0004	01/10/91	1.0120	0.0134
000079	005027	0012 0001	9	0005	01/10/91	62.0000	0.1798
000017	005018	0014 0004	14	0008	01/10/91	53.6750	21.0030
000021	005025	0001 0008	15	0008	01/10/91	0.2595	0.0000
000011	005020	0023 0021	15	0008	01/10/91	88.0000	0.5368

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 70
PAGE#: 1

HAZARDOUS PRODUCTS THAT WERE USED IN AN INVALID PROCESS

CNT#	HPID#	PROC AREA	EMPL	DEPT	DATE	USED POUNDS	VOC AMT POUNDS
000075	005031	0023 0007	3	0003	01/10/91	7.0000	0.0000
000016	005015	0014 0022	5	0004	01/10/91	62.0000	0.0000
000048	005023	0018 0002	6	0004	01/10/91	1.0120	0.0134
000079	005027	0012 0001	9	0005	01/10/91	62.0000	0.1798
000017	005018	0014 0004	14	0008	01/10/91	53.6750	21.0030
000021	005025	0001 0008	15	0008	01/10/91	0.2595	0.0000
000011	005020	0023 0021	15	0008	01/10/91	88.0000	0.5368

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/17/92
REPORT#: 71
PAGE#: 1

CHEMICAL INVENTORY ON HAND + SPECIALS LIST TOTALS

CHEMID#	CAS#	DESCRIPTION	TOX HI	OSH HI	AS1 HI	AS2 HI	CIM QTY LOW	CIM QTY HI
000002	9000015	ACACIA	0	0	0	0	0	0
000003	83329	ACENAPHTHENE	0	0	0	0	86	173
000005	75070	ACETALDEHYDE	0	0	0	0	0	0
000009	64197	ACETIC ACID, GLACIAL	0	0	0	0	336	504
000026	50782	ACETYL SALICYLIC ACID	0	0	0	0	1776	2131
000029	2429803	C.I. ACID ORANGE 45	0	0	0	0	49	62
000031	3567655	C.I. ACID RED 85	0	0	0	0	2041	2154
000034	107028	ACROLEIN	0	0	336	0	168	336
000037	107131	ACRYLONITRILE	0	0	0	0	0	0
000039	50760	ACTINOMYCIN D	0	0	0	0	0	0
000040	124049	ADIPIC ACID	0	0	0	0	184	551
000041	23214928	ADRIAMYCIN	0	0	0	0	0	0
REPORT TOTALS:			0	0	336	0	4640	5911

Conclusions

HMTS can be a useful tool for a shipyard that needs to track the locations and quantities of hazardous chemicals. It supports SARA requirements, is user friendly, addresses the particular needs of a shipyard and can be easily modified to reflect changes in local, state or federal regulations.

Other computer programs on the market were carefully studied to evaluate their suitability for hazardous materials tracking. All of the products evaluated were found to be deficient in one or more areas, including but not limited to MSDS data entry and retrieval, location tracking, chemical database, SARA compliance and user interface. For example, a particular program may be suitable for tracking the current locations of hazardous materials but will not have facilities for product use histories. HMTS was designed to incorporate the best features into one package.

While HMTS is theoretically a very good tracking and reporting system, the real test will be when it is implemented at a real shipyard. This will involve careful re-evaluation of bar code scanner requirements, label requirements and possible changes to database definitions, but the long-term benefits to a shipyard will be remembered long after the implementation process is forgotten.

While the key information from an MSDS can be entered into HMTS, there are many other fields on the MSDS that would be useful to a shipyard manager if they were available in a timely and accurate manner. These data fields could be added with very little programming effort. Only one or two sets of hard copy MSDSS are being maintained at most shipyards; if an image of the MSDS was available on-line (even as a stand-alone program module separate from HMTS), shipyards would benefit tremendously knowing that all MSDSs were up to date and that the actual image of the MSDS would be available at any PC terminal with graphics capability.

Other future enhancements to HMTS might include hazardous waste and manifest tracking, employee training and waste minimization analysis.

As HMTS was being completed, the HMTS scanning module was underway. It is strongly advised that the user refer to the Hazardous Materials Tracking System Scanning Module final report for detailed information on HMTS's MSDS scanning capability.

When implemented, this product will improve the tracking of hazardous chemicals in the shipyard environment. This use of computers in the shipyard to solve complex problems uses leading-edge technology to solve today's environmental headaches. Consequently, a shipyard can resolve the hazardous chemical tracking issue and concentrate their resources on other profit-making operations.

Bibliography

Clansky, K. and Graber, K., eds., Chemical Guide to SARA Title III, Roytech Publications Inc., Burlingame, California, 1989.

Info World, Analyzing Relational Databases, January 8, 1990, pp. 51-68.

Information Center, Basic Data Modeling, September 1988, pp. 30-39.

INTERMEC Corporation, An Introduction to Bar Code Symbology, Lynnwood, Washington, 1989.

Jessup, J. and Rogness, J., Approaching Shipyard Shop Floor Control Using IDEF System Analysis Tools, SNAME 1990 Ship Production Symposium, Milwaukee, Wisconsin, August 23, 1990.

Johnston, D. and Schoenleber, D., Solving SARA Compliance with Computerized Hazardous Materials Tracking, SNAME 1990 Ship Production Symposium, Milwaukee, Wisconsin, August 23, 1990.

Manufacturing Systems, Redesiming the Coxmoration with IDEF's Help, December 1988, pp. 26-31.

PC Magazine, Multi-User Databases: The Art of Simultaneous Access, September 26, 1989, pp. 105-148.

PC Week, Relational Databases Have Programming Prowess, August 20, 1990, pp. 67-71.

State of California Air Resources Board, Technical Guidance Document to the Criteria and Guidelines Regulation for AB-2588, Sacramento, California, August 1989.

Appendix A: Hardware and Software Requirements

If you have any questions, contact:

HMTS Support
Insight Industries
One Insight Drive
Platteville, WI 53818
(608) 348-8815

ITEM	DESCRIPTION	APPROXIMATE COST
Host Computer	286 or 386 IBM PC or Compatible with 640K of RAM (minimum of 1 MB of Extended Memory and 130 MB Hard Disk is suggested, depending on the number of MSDSs)	\$1,100-2,500
Bar Code Scanner and Bar Code Printing Software	Worthington Tricoder	\$2,095
Video Monitor and Card	HERC, CGA, EGA, VGA or Super VGA, color or monochrome	\$150-750
Laser Printer	Hewlett-Packard LaserJet III or compatible with at least 1 MB of RAM	\$2,500
Dot Matrix Printer	Epson-compatible printer in 9 or 24 pin is suggested	\$225-625
Chemical Database	CHEM Master Database from Envirogenics, Inc. (SPECIAL HMTS USERS PRICE) 1-800-543-2064	\$200
Host Relational Database Management Software	TEAM-UP from Unlimited Processing, Inc., 8647 Baypine Road, Suite 208, Jacksonville, FL (904) 731-8330 (Single User to 10-Workstation Multi-User)	\$795-1,990

Appendix B: Acknowledgements

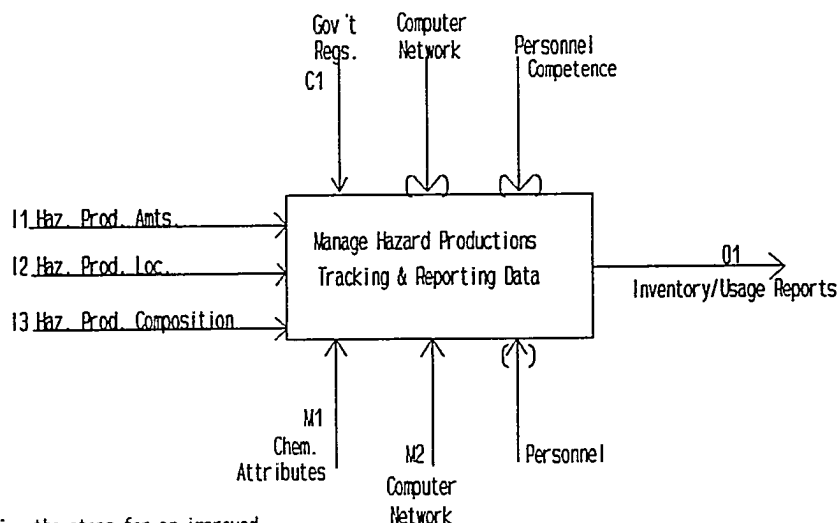
Insight Industries, Inc. would like to thank the following individuals and corporations for their assistance in making HMTS a reality:

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John Williams, David Taylor Research Center

Appendix C: IDEF Diagrams

The following select IDEF diagrams show how the IDEF process can be used to explain all levels of detail within a system. The first diagram explains the overall constraints involved in managing HMTS. The second diagram explains the system details as it pertains to the generation of system reports, supplying supporting data and integrating system hardware/software. The third diagram zeros in on the checking-in of hazardous material containers. Inputs and outputs of each operation are detailed. As an additional example of this technique, the process of identifying a hazardous product is explained.

USED AT:	AUTHOR: Bob Bryla	DATE: 3/5/90	WORKING	READER	DATE	CONTEXT:
	PROJECT: HAZMAT/NASSCO	REV: 1.1	X DRAFT			
			RECOMMENDED			
	NOTES: 1 2 3 4 5 6 7 8 9 10		PUBLICATION			



1. Purpose: Define the steps for an improved HAZMAT Tracking System.
2. Viewpoint: Plant Manager (Env. Mgr.)

NODE: HAZ/A-0	TITLE: Manage Haz. Products Tracking & Reporting Data	NUMBER: 111HM1
---------------	---	----------------

USED AT:	AUTHOR: Bob Bryla	DATE: 3/5/90	WORKING	READER	DATE	CONTEXT: 111HM1
	PROJECT: HAZMAT/NASSCO	REV: 1.1	X DRAFT			
			RECOMMENDED			
	NOTES: 1 2 3 4 5 6 7 8 9 10		PUBLICATION			

Text:

Hazardous Products Composition (13) consists of a.) container type & units; b.) information from original label on container; c.) MSDS for this product.

Inventory/Usage Reports (01) includes internal and external requested reports; routine daily/monthly/yearly inventory reports; automatically generated reports based on inventory amounts.

Glossary:

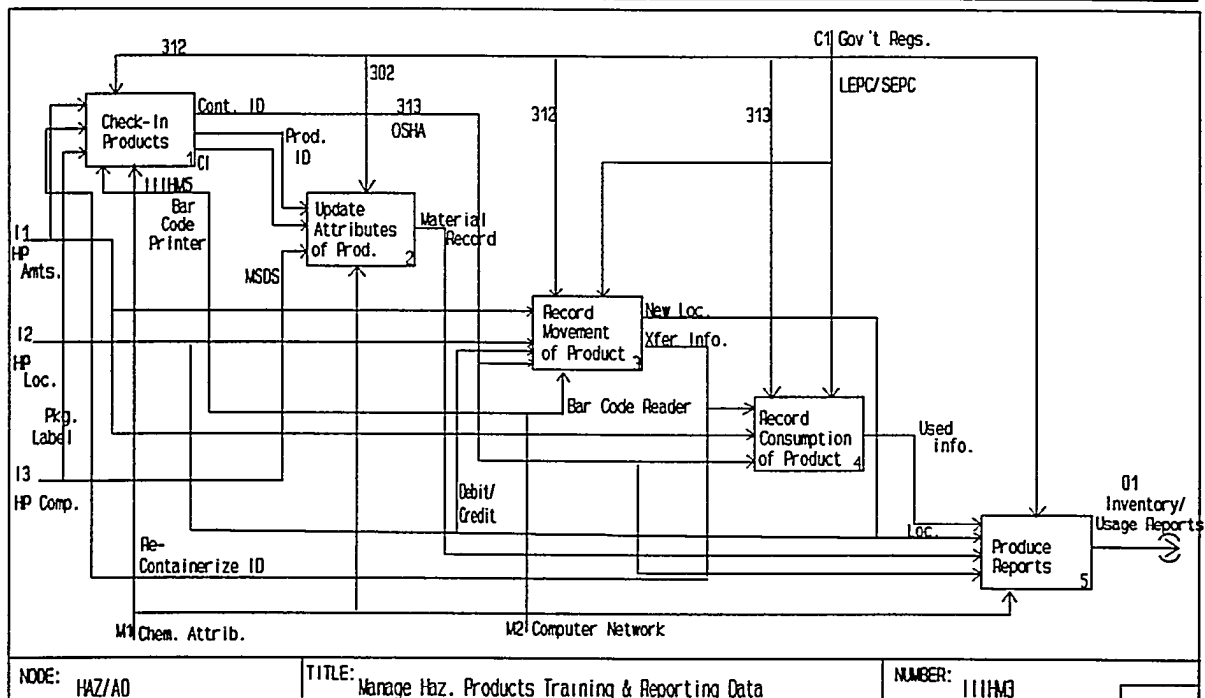
Hazardous Product - a substance consisting of one or more hazardous chemicals as defined by various regulatory agencies.

Chemical Attributes - individual chemical characteristics from a chemical database including but not limited to reactivity, health hazards, regulatory amounts, formulas, and so on.

Personnel competence - various levels of education and computer literacy (in lieu of training) may restrict the functionality of various tasks in the system or may force sub-functions to other parts of the system.

NODE: HAZ/A-0TG	TITLE: Manage Haz. Products Tracking & Reporting Data	NUMBER: 111HM2
-----------------	---	----------------

USED AT:	AUTHOR: Bob Bryla	DATE: 3/5/90	WORKING	READER	DATE	CONTEXT: 111HM1 A-0
	PROJECT: HAZMAT/NASSCO	REV: 1.1	X DRAFT			
	NOTES: 1 2 3 4 5 6 7 8 9 10		RECOMMENDED			
			PUBLICATION			



USED AT:	AUTHOR: Bob Bryla	DATE: 3/5/90	WORKING	READER	DATE	CONTEXT: 111HM3 A0
	PROJECT: HAZMAT/NASSCO	REV: 1.0	X DRAFT			
	NOTES: 1 2 3 4 5 6 7 8 9 10		RECOMMENDED			
			PUBLICATION			

Text:

"Hazardous Products" is abbreviated "HP" for clarity.

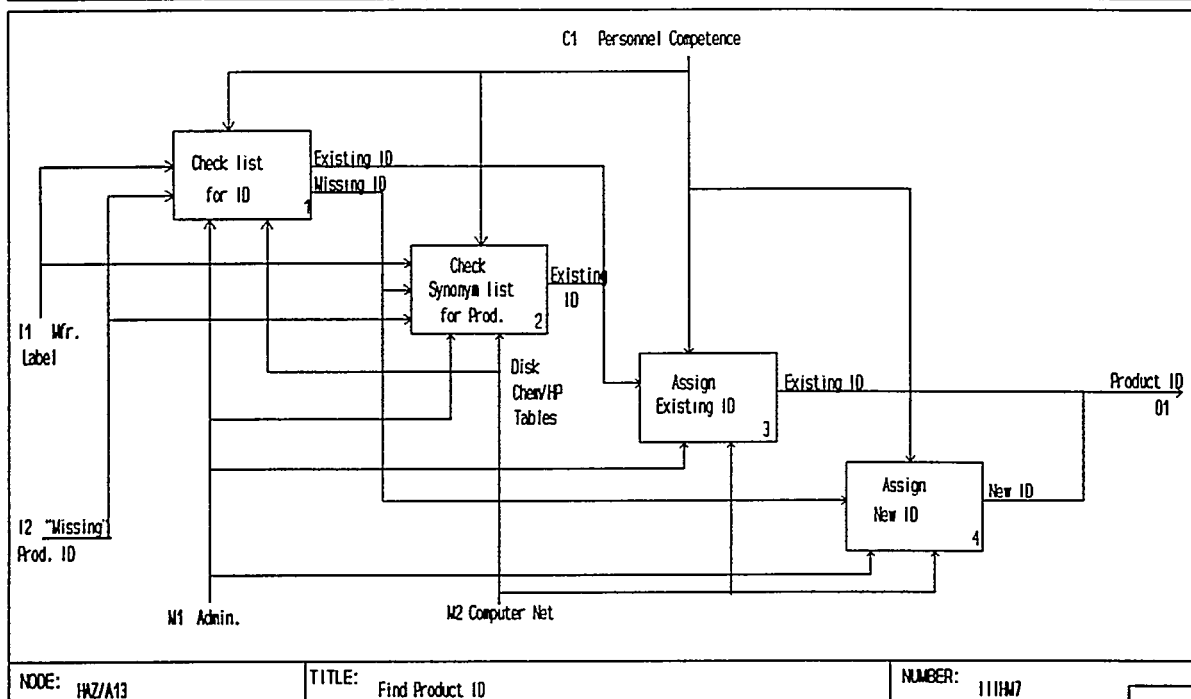
"Material Record" contains: Product ID, MSOS#, Chemical Composition, amounts, etc.; i.e. the attributes of a product.

"CI" = "Container Info" - Unknown (new) product encountered. Information on container label entered into "I don't know" field in container record.

Computer Network (M2) would go to all functions; for the sake of a diagram clarity, only those functions carried out by specialized equipment are shown.

NOOE: HAZ/A0TG	TITLE: Manage Haz. Products Tracking & Reporting Data	NUMBER: 111HM4
----------------	---	----------------

USED AT:	AUTHOR: Bob Bryla	DATE: 3/5/90	WORKING	READER	DATE	CONTEXT: 111H45
	PROJECT: HAZMAT/NASSCO	REV: 1.0	X DRAFT			
	NOTES: 1 2 3 4 5 6 7 8 9 10		RECOMMENDED			
			PUBLICATION		A1	



USED AT:	AUTHOR: Bob Bryla	DATE: 3/5/90	WORKING	READER	DATE	CONTEXT: 111H47
	PROJECT: HAZMAT/NASSCO	REV: 1.0	X DRAFT			
	NOTES: 1 2 3 4 5 6 7 8 9 10		RECOMMENDED			
			PUBLICATION		A13	

Text:

This set of functions is performed in the "front office" after all efforts by the warehouse staff to locate a product ID have failed. The product may be on the list in the wrong place, overlooked, or may not exist (a new product). If the product is new, a new product ID is assigned and the MSDS information can be assigned at a later time. Daily reports will indicate containers without a product ID or without the necessary product attributes.

NOOE: HAZ/A13	TITLE: Find Product ID	NUMBER: 111H48
---------------	------------------------	----------------

Appendix D: HMTS User's Manual

Overview

HMTS was designed to be easy to use, yet powerful. All data application screens have help screens associated with them. The data entry fields are thoroughly edited to ensure the information that is tracked by HMTS is as accurate as possible.

Installation

HMTS is available on high (1.2MB) or low (360K) density 5 1/4" disks or high (1.44MB) or low (720K) density 3 1/2" disks. At least two megabytes of free disk space is required before installing HMTS. No matter what size disk is used, HMTS is installed with the following command:

(SOURCE DRIVE): INSTALL (DESTINATION DRIVE) (SOURCE DRIVE)

Example **A:INSTALL C A**

This command would install HMTS on drive C from drive A. Note: Colons are used after the destination drive and the second reference to the source drive.

The operator is prompted for additional disks if needed.

HMTS can be installed on the drives C, D, E or F.

TEAM-UP will require that the command FILES=20 (minimum of 20) be specified in your config.sys.

The TEAM-UP system files will be installed in \USR\TEAMUP.

TEAM-UP will be delivered to the NSRP in a demonstration mode. All menu options will run except those that rely on purchased software. In the situation where purchased software is invoked from the menu, a message will instruct the user that the option selected can not run due to missing software. The demonstration version restricts the number of records that can be entered in each application.

The base RDMS TEAM-UP is also a purchased product. Both the full and runtime versions of TEAM-UP can be purchased. In the delivered demonstration version of HMTS a file called "HMTSDEMO" will exist in the \USR\TEAMUP\ directory. The purpose of this file is to signal the user that purchased software is necessary to run certain menu options. When any of the purchased software is loaded to HMTS, the file "HMTSDEMO" should be erased. HMTS will not execute any purchased software with "HMTSDEMO" present. The full version of TEAM-UP will allow the shipyard to pursue their own development of HMTS. If a runtime version is purchased, the shipyard will be allowed to add or change reports but

will not be allowed to add or change any applications. When installing the runtime version or the full version of TEAM-UP, use the install program provided by TEAM-UP. TEAM-UP system files should be loaded in the \USR\TEAMUP directory. The HMTS files to be used with a runtime or full version of TEAM-UP must be requested from NASSCO.

HMTS specific programs will be installed in \USR\TEAMUP\HAZMAT. Several additional subdirectories will be created under the \USR\TEAMUP\ directory for the purchased software. Their names will reflect the names of the purchased software. The Tricoder files associated with BARKEY must be loaded in the \USR\TEAMUP\BARKEY directory. The Tricoder files associated with GRAPHRES must be loaded in the \USR\TEAMUP\GRAPHRES directory.

HMTS may be moved to a PC network when multi-user access is required. Although the transfer process from single user to multi-user is a copy process, great care should be taken during this operation in order to maintain data integrity. Make sure that backups are done prior to the transfer process. Multi user versions of Teamup are available for most PC networks. Use of HMTS on a network with multiple users should see very little if any degradation in performance. The user may even experience an increase in speed and performance depending upon network enhancements. Each application within HMTS will handle four billion records. Most likely the user will be restricted by hardware problems before HMTS runs out of room for more records. Note, if installing HMTS on a network, the users should all be running the same version of DOS.

Part of the installation process will copy the file COMMAND.COM located in your bootable root directory to the \USR\TEAMUP directory. If for some reason your computer does not have command.com located in your root directory, you will need to copy it to the directory listed above. If this is not done, unpredictable results may occur.

To start HMTS, type HMTS at the \USR\TEAMUP\ directory. HMTS can be installed as often as desired. If re-installing, the old directories and the respective data should be erased first on the hard drive.

Insight Industries, Inc. will be glad to help any users with installation or run-time problems. Call (608) 348-8815 and ask for HMTS Support.

Disk Caching

It is strongly recommended that some type of disk caching be used when operating HMTS. Disk caching programs are available for stand alone PCs. Most Networks already have some form of disk caching. It is a minimal investment that will increase the speed of HMTS dramatically. It is not required for the system but highly recommended.

User Security

HMTS has been developed with five levels of security (0=low -9 = hi); SUPER=supervisor level 9, MGR=manager level 7, ENVIR=environmental level 5, ENTRY = data entry level 3

and PROD = production level 1. The uppercase abbreviations are the usernames that should be typed while in at the TEAM-UP sign-on screen. The program presently has no passwords associated with the different usernames. Additional user levels of security can be added and passwords can be added by choosing option 123 on the main menu of HMTS.

The SUPER level has access to run all reports, applications and view all fields. The MGR has basically the same rights except some fields that are used for audit trail purposes will be hidden. The ENVR level has the same rights as MGR except for access to the security system. ENTRY has the same rights as ENVR except for access to the import process. Finally, PROD has the same rights as ENTRY except access is primarily restricted to viewing master data applications. As mentioned earlier, each of these levels of usernames can be changed.

Audit Trails

TEAM-UP provides for the setting up of audit trails for each application. The audit trails provide a manner in which the system operator can determine the sequence of how a problem occurred. As records are deleted and updated, the deleted record or the old form of the updated record are retained in an audit mode. These records can be removed as desired. As suggested by the consultants, several applications have this feature turned on. The applications Hazardous Product, Hazardous Chemical, Container History and Container have the audit trail option turned on. Any records deleted or updated below the SUPER level security will be retained in the audit mode. The demonstration version will not have audit trails turned on.

Record Correction

In the event that a record in an application is incorrectly entered, the SUPER username should be used to correct the error. This level of security can alter records with updates and deletes where these activities under other security levels are not allowed. Care should be taken when performing these type of record correction operations.

Importing CHEM Master Data

To import the CHEM Master database into HMTS, install CHEM Master into its default location, Drive:\CMSDATA. The CHEM Master data must be installed on the same drive as HMTS. Once the CHEM Master data has been installed go into the HMTS program and run option 121 on the HMTS main menu.

The import process is quite lengthy. It may take several hours to import the data and run the necessary batch files that convert the data so that it may be used in the HMTS program but it is a seldom run operation and thus acceptable. WARNING. If the CHEM Master database is re-imported or a new CHEM Master database is imported, any locally added chemical or synonym information will be replaced by the imported CHEM Master records. Before running the CHEM Master import feature full backups should be made of HMTS. Also, the user should run option 67 in order to note the chemicals that have been added locally. The

local chemicals should be checked against the new CHEM Master chemicals to see if they are still missing. If the chemicals do not appear in the CHEM Master database, the chemicals should be re-centered.

The CHEM Master import for HMTS has been written for the Winter 1988-1989 version of CHEM Master. If importing a different release, the import program may have to be modified.

HMTS Menu Options

The Sire-On Menu is the first screen displayed when starting HMTS. The usernames mentioned in the system security section should be used to enter HMTS.

Unlimited Processing, Inc.		Copyright (c) 1985,86,87,88	
<div style="border: 2px solid black; padding: 5px; text-align: center;">HAZARDOUS MATERIALS TRACKING SYSTEM</div>			
EXIT="DOS"		Prepared by Insight Industries, Inc. for MARAD contract number DTHA 91-84-C-41044 For HMTS Information call 1-608-348-8815	
System:	TEAMUP VERSION 2.2		Serial #:
PC/MS DOS	DATE:		APPL
SINGLE USER	USERNAME:		DEMO
			SYSTEM

The Main Menu is six pages deep. Page one and two contain applications that can be called from the menu. Page 35 contain~ reports that can be generated. Page six contains utility options.

Application Characteristics

In the applications that follow there are several characteristics that will be common to all applications no matter which application the user is in.

As records are entered, many validation routines occur. These checks are performed in order to maintain a "clean" database. For example, typical items that will be checked will be employee numbers, contract numbers, hull numbers, hazardous product identification numbers, etc. The checking process consists of accessing master applications and performing a search to see if the hull number, area, etc. are present. In all cases if the data is invalid a window will pop up listing the valid choices. If a user wishes to review what the valid choices are from a master application prior to committing a record, press a [CTRL][G] to view the appropriate related master application. In the event that the record is found,

descriptions and other data will be brought in to the current application and displayed on the screen. Also, as the code determines that no errors are found, it will proceed to process the remainder of the procedures.

Another task that is performed is the process of checking the child application for the existence of a record before it is deleted in a parent record. If this situation exists HMTS will advise the user to delete the child records before it allows the parent record to be deleted.

In the situation where you need to enter a record in an HMTS application and you are being forced to enter a field that is mandatory, it is suggested that in the related application associated with the mandatory field, that you enter a "unknown" record. Consequently, the unknown record can be chosen and when you have more time you can clear up the problem.

These tasks will be found to work the same in all HMTS applications.

HAZARDOUS MATERIAL TRACKING	
MAIN APPLICATION MENU	
MAIN APPLICATIONS	
1. HAZARDOUS PRODUCT	11. HAZ PRODUCTS ALLOWED IN A PROCESS
2. HAZARDOUS CHEMICALS (CM)	12. CONTAINER STATUS CHANGE MASS ENTRY
3. CONTAINER FOR HAZARDOUS PRODUCT	13. YARD AUDIT
4. PRODUCT MANUFACTURER	14.
5. CHEMICAL SYNONYM (CM)	15.
6. PROCESS WHERE PRODUCT IS USED	16.
7. AREA IN WHICH PRODUCT IS USED	17.
8. HIST OF PROD QTYS USED OR ADDED	18.
9. CHEM MIXTURES & COMP CHEMS (CM)	19.
10. CHEMICAL COMPONENTS OF AN HP	20. RESEARCH PROJECT DISCLAIMER!
888. SIGNON MENU 999. SIGNOFF	
**** PGDN FOR MASTER APPLICATION MENU ****	
V010192	SEL <input type="text"/>
F1 HELP	

The Master application menu contains reports that are merely raw data dumps of each application. These reports have been supplied so that the user can always print the data out in a hard copy format and perform necessary reviews. Master reports contain very little logic. The (CH)s that are found on the main menu refer to applications that receive CHEM Master data.

MASTER APPLICATION MENU	
MASTER APPLICATIONS	
21. HAZARDOUS PRODUCT MARINE CTG	31. TEMPERATURE CONDITION
22. MARINE CTGS VOC LIMIT CATEGORIES	32. TIER II REPORTING RANGES
23. STORAGE TYPE	33. CONTAINER UNIT
24. HMIS PERSONAL PROTECTION INDEX	34. COMPANY DATA
25. HMIS HAZARD INDEX	35. DEPARTMENTS
26. NFPA REACTIVITY	36. EMPLOYEES
27. NFPA SPECIAL NOTICE	37. SECTION 302 CHEMICALS (CM)
28. NFPA HEALTH HAZARDS	38. SECTION 304 CHEMICALS (CM)
29. NFPA FIRE HAZARDS	39. SECTION 313 TOXIC CHEMICALS (CM)
30. PRESSURE CONDITION	40. OSHA HAZARDOUS CHEMICALS (CM)
888. SIGNON MENU 999. SIGNOFF	
**** PGDN FOR MASTER APPLICATION MENU (CONT.) ****	
F1 HELP	

MASTER APPLICATION MENU (CONT.)	
MASTER APPLICATIONS	
41. CA AB2588 A-I CHEMICALS	51.
42. CA AB2588 A-II CHEMICALS	52.
43. CONTRACT NUMBERS	53.
44. HULL NUMBERS	54.
45. SWBS NUMBERS	55.
46. UNIQUE COUNTS	56.
47. PLANTS OR SITES	57.
48.	58.
49.	59.
50.	60.
888. SIGNON MENU 999. SIGNOFF	
**** PGDN FOR REPORT MENU ****	
F1 HELP	

The following pages explain the options of the Main Menu. Each table will have a listing of the search fields.

Data Entry Sequence

As data is entered into HMTS, the user should review which applications need to have data entered first. The following sequence will instruct the user to first load the "Minor" applications and then the Major applications:

1. Plants or Sites
2. Unique Counts
3. SWBS Numbers
4. Hull Numbers
5. Contract Numbers

6. CA AB2588 A-II
7. CA AB2588 A-I
8. Departments
9. Employees
10. Company Data
11. Container Unit
12. TIER II Reporting Ranges
13. Temperature Condition
14. Pressure Condition
15. NFPA Fire Hazard
16. NFPA Health Hazard
17. NFPA Special Notice
18. NFPA Reactivity
19. HMIS Personal Protection Index
20. HMIS Hazard Index
21. Storage Type
22. Marine Coating VOC Limit Categories
23. Hazardous Product Marine CTG
24. Product Manufacturers
25. Hazardous Products
26. Hazardous Chemicals
27. Area in Which a Product is Used
28. Process Where Product is Used
29. Hazardous Products Allowed in a Process
30. Chemical Synonyms
31. Chemical Mixtures and Component Chemicals
32. Chemical Components of a Hazardous Product
33. Section 302 Chemicals
34. Section 304 Chemicals
35. Section 313 Toxic Chemicals
36. OSHA Hazardous Chemicals
37. Container used for Hazardous Chemicals

If this sequence is followed, the user should not experience “Child” related application problems when entering the data.

Hazardous Product

F HP		<u>HAZARDOUS PRODUCT</u>	
HAZARDOUS PRODUCT ID NUMBER: _____. (AUTO FILL) IMAGE AVAILABLE: _.			
MANUFACTURER'S TRADE NAME: _____.			
MANUFACTURER'S ID_NUMBER: _____. _____.			
HMIS HEALTH: _.		NFPA HEALTH HAZARD: _.	
HMIS FLAMMABILITY: _.		NFPA FIRE HAZARD: _.	
HMIS REACTIVITY: _.		NFPA REACTIVITY: _.	
HMIS_PERSONAL PROTECTION: _.		NFPA_SPECIAL NOTICE: _.	
FIRE HAZARD: _ (Y/N)		ACUTE HEALTH HAZARD: _ (Y/N)	
SUDDEN RELEASE OF PRESSURE: _ (Y/N)		DELAYED HEALTH HAZARD: _ (Y/N)	
UNSTABLE REACTIVE: _ (Y/N)			
TRADE SECRET: _ (Y/N) SOLID/LIQUID/GAS: _ (S/L/G) SPEC GRAV: _____.			
DENSITY: _____ DENSITY UNITS: _ G=G/L, L=LB/GAL DEN#EQ: _____.			
VOC_AMT: _____ VOC UNITS: _ G=G/L, L=LB/GAL VOC#EQ: _____.			
F1=HELP ESC=EXIT			
CTRL L=ADD CHEM CMPNNTS, W=IMAGE MENU			
F=Find E=Enter U=Update D=Delete			

The Hazardous Product application is used to maintain a list of all the hazardous products that you have on hand or that one time had on hand. Each record contains information about a specific product.

Prod. ID# A 1-6 digit identification number that you give to each product to uniquely define it. When you perform a [CTRL][E], the next available number will be entered into this field as a default.

Image Available A one character field that identifies whether a hazardous product has a scanned image available or not.

Trade Name: The name that the manufacturer has given to this product. This field can be up to 40 characters long.

Manufacturer: The identification number of the manufacturer of the product. After entering the ID number, the manufacturer's name and telephone number will be displayed on the same line.

SARA Hazard Classes: The next five fields require you to enter either Y(es) or N(o) as to how the product is classified by the Superfund Amendments and Reauthorization Act (SARA) in each of the five classes: Fire, Pressure, Reactivity, Acute Health Hazard or Delayed Health Hazard.

Trade Secret?: Enter Y or N whether the manufacturer considers this product or any part of it to be a trade secret and, therefore, does not publish the complete list of chemicals found in the product.

Sol./Liq./Gas: Enter a S, L or G if the product is a solid, liquid or gas respectively.

Dens: You need to enter the density of the product to allow HMTS to compute the number of pounds of material used. The density must be entered in one of two formats: grams per liter or pounds per gallon.

Spec Grav: The specific gravity may be entered in place of density. If this happens, the equivalent density will be calculated based on the density of water, 8.34LBS/GAL. If the density is entered, it will over-ride any specific gravity amount no matter its value.

VOC: Enter the amount of Volatile Organic Chemicals released per amount used. The VOCs must be entered in one of two formats: grams per liter or pounds per gallon.

NFPA: In the center of the form are the entry fields for National Fire Protection Association (NFPA) classification system. You enter the codes defined by NFPA for each of four categories: Health Hazard, Fire Hazard, Reactivity and Special Notice. A display field describes what the code means for each of the categories.

HMIS: Down the right side of the form you have the entry fields for the Hazardous Materials Identification System (HMIS). Enter the codes as defined by HMIS for each of four categories: Health, Flammability, Reactivity and Personal Protection. A display field describes what the code means for each of the categories.

At the bottom of the form are two control function keys. [CTRL] [W] takes you to the menu that allows you to scan, print and display on the screen exact copies of your MSDSs. [CTRL] [L] is used to enter the chemical components of a hazardous Product.

Care should be taken when updating the Hazardous Product application. Changing densities or density units must also be addressed in the History and Container applications.

Hazardous Chemicals

F CHEM		HAZARDOUS CHEMICALS	
CHEMICAL ID NUMBER: _____. (AUTO FILL)			
CAS NUMBER: _____.			
CHEM FORMULA: _____.			
COMMON CHEMICAL NAME: _____.			
HMIS HEALTH: ____.		NFPA HEALTH HAZARD: ____.	
HMIS FLAMMABILITY: ____.		NFPA FIRE HAZARD: ____.	
HMIS REACTIVITY: ____.		NFPA REACTIVITY: ____.	
HMIS_PERSONAL PROTECTION: ____.		NFPA_SPECIAL NOTICE: ____.	
FIRE HAZARD: ____ (Y/N)		ACUTE HEALTH HAZARD: ____ (Y/N)	
SUDDEN RELEASE OF PRESSURE: ____ (Y/N)		DELAYED HEALTH HAZARD: ____ (Y/N)	
UNSTABLE REACTIVE: ____ (Y/N)			
PURE: ____ MIX: ____ (P/M)		SOLID: ____ LIQUID: ____ GAS: ____ (S/L/G)	
DENSITY G/CC: ____.		(SPEC GRAV FOR LIQS & SOLs) VOCs: ____ (Y/N)	
F1=HELP ESC=EXIT NON CHEMMASTER: ____.			
F=Find E=Enter U=Update D=Delete			

The Hazardous Chemicals application is used to maintain a list of all the chemicals that may be found in any of the products that you have on hand, have had on hand or will have on hand. The chemicals may be entered through this screen to build the list or the Import program may be used to build the list. Chemicals can be added through this screen at any time.

Chem. ID#: A 1-6 digit identification number that you assign to uniquely define each chemical. CHEM Master makes use of Chemical ID#s less than 10,001. Consequently, if the user wishes to add a chemical that he cannot find in CHEM Master, the Chemical ID# should be greater than 10,001.

CASNo: Enter the number assigned to this chemical by the Chemical Abstract Service.

Name The common chemical name; can be up to 60 characters.

Density: The density of the chemical in grams per cubic centimeters. **Note: The density entered will not be used for calculating Tier II reports. Densities entered in the Hazardous Product application are used for all Tier II reports.**

Type Defines if this is a pure chemical or a mixture of several different chemicals.

VOCs: Enter Y or N whether this chemical is listed as releasing VOCs. **Note: This flag does not affect the history file in the way that it calculates amount of VOCs emitted to the environment. The VOC amounts found in the Hazardous Product application are used for the Routine Emissions report.**

Container for Hazardous Product

F CONTA		CONTAINER FOR HAZARDOUS PRODUCT		QTY#EQ: _____.	
CONTAINER ID NUMBER: _____.		#MULT CONTAINERS: ____.			
CONTRACT: _____.		HULL: _____.		SWBS: ____.	
HAZARDOUS PRODUCT IN THIS CONTAINER: _____.		DEPT: ____.			
DESCRIPTION OF UNKNOWN RECEIVED PRODUCT _____.					
QTY CURRENTLY IN CONTAINER: _____.					
UNITS OF AMOUNT ENTERED: ____.					
STORAGE CONTAINER TYPE: ____.					
STORAGE PRESSURE TYPE: ____.					
STORAGE TEMPERATURE TYPE: ____.					
DATE PRODUCT RECEIVED OR PUT IN CONTAINER: ____/____/____.					
DATE ENTERED: ____/____/____.					
DATE CONTAINER OPENED: ____/____/____.					
LAST CONTAINER CHANGE: ____/____/____.					
DATE CONTAINER RETIRED: ____/____/____.					
DATE PRODUCT EXPIRES: ____/____/____.					
ASSIGNED PLANT OR SITE: ____.					
ASSIGNED AREA FOR THIS CONTAINER: ____.					
ASSIGNED PROCESS FOR THIS CONTAINER: ____.					
UPDATED OR ENTERED BY: _____.					
F1=HELP ESC=EXIT					
CTRL: F=FOUND,E=ENT,D=DEL,J=MLT ENTRY,K=SHOW					

The **Container for Hazardous Product** application is used to maintain a list of the containers used to store the various products.

container ID#: A 1-6 digit identification number that you assign to uniquely define each container. When you do an add, the next available number will be entered into this field as a default.

#Mult Containers: The number of multiple identical containers the user wishes to enter.

Contract: The contract number associated with the container.

Hull: The hull the container was ordered for.

SWBS: The ship work breakdown structure category assigned.

Dept: The Department that the container is currently assigned to.

Container Qty.: The amount of the product remaining in the container. This field is also updated automatically from Inventory.

Unit Code: A single character code that represents the unit of measurement of the amount in the container. A display field will list what the code represents. A mini-table is available.

Product ID#: The Hazardous Product ID number of the product in the container. The name of the product will be displayed.

Current Area: The ID number of the current area where the container is being kept. The Area ID, area description, department ID and department description will be displayed.

Current Process: The Process in which the product is currently being used. The process description will be displayed.

Resin Resp Employee: The ID number of the employee who is responsible for the container. The employee's first name, last name and middle initial will be displayed.

Container: A single character code that defines what type of container the product is in. A description of what the code means is displayed.

Pressure: A single character code that defines the pressure at which the container is stored. A description of what the code means is displayed.

Temperature: A single character code that defines the temperature at which the container is stored. A description of what the code means is displayed.

Date Rec'd or Put in Container: The date the container was received +/- 7 days.

Date Entered: The date the container was entered into the system.

Last Container Change: The date the container was last updated.

Date Opened: The date the container was first opened +/- 7 days.

Date Retired: The date the container was emptied +/- 7 days.

Date Expires: The date after which the product cannot be used. If a product will not expire such as alloy steels, a date of 99/99/99 may be entered. If the expiration date is left blank, a default value of two years will be entered +/- 7303 days.

The Container application allows the entry of multiple identical records. The records will vary only in the container ID number. Each subsequent container will have a container ID number higher by one. An example of when to use this option would be when a four gallons of paint are received. The individual cans are identical and likewise the information entered in the container application will be identical except for the container ID number. To use the option, enter the data for the first record including the number of multiple containers. Use a CTRL J to enter the multiple records. The CTRL J must be used instead of a CTRL E.

The Container application does not allow updates except for the MGR and SUPER username security levels. A great deal of care must be taken not to change the container quantities or the history records may not match the container balance. On the other hand, if a Department

or Plant ID# need to be changed, MGR and SUPER can accomplish the change without an involved change process.

If the container quantity needs to be updated by other users, the incorrect records in the history file must be deleted first. Once the history files are deleted, the container record can be updated. As mentioned earlier updates are not allowed. The manner in which a container would be updated is as follows: first, delete the record; next, while data is still on the screen make the necessary changes; finally, enter the record.

All containers must be frost entered in the Container application.

Product Manufacturer

F MFR	<u>PROOUCT MANUFACTURER</u>
MANUFACTURER ID_NUMBER: _____. (AUTO FILL)	
MANUFACTURER NAME: _____.	
ADDRESS LINE 1: _____.	
ADDRESS LINE 2: _____.	
CITY: _____. ST: _____. ZIP: ____-____.	
DAY PHONE: ____-____-____. EMERGENCY PHONE#: ____-____-____.	
FAX#: ____-____-____.	
F1=HELP ESC=EXIT	
F=Find E=Enter U=Update D=Delete	

The Product Manufacturer application is used to maintain a list of all the manufacturers who hazardous products are purchased from. Each record contains data specific to an individual manufacturer.

ID Number: A 1-4 digit identification number that is automatically assigned to uniquely define each manufacturer. When you perform an add, the next available number will be entered into this field as a default.

Name You can use up to 30 characters to name the manufacturer.

Address Line 1 and 2: The mailing address of the manufacturer. Each address line may be up to 25 characters. Neither Address Line 1 nor 2 are required.

City: The city that the mailing address is in. Maybe up to 25 characters.

State: The two-character code that identifies the state of the mailing address.

Zip+4: The five-digit zip code plus the four-digit extension.

Night (Emerg.) Phone: A phone number to contact the manufacturer in the event of an emergency or when their offices are closed.

Day Phone: The phone number of the manufacturer's main office.

Fax#: Company Fax#.

Chemical Synonym

F SYN
<div>CAL SYNONYM</div>
SYNONYM ID NUMBER: . (AUTO FILL)
SYNONYM: _____
CHEMICAL ID NUMBER: . _____
F1=HELP ESC=EXIT
F=Find E= Enter U= Update D=Delete

The Chemical Synonym application is used to maintain a list of common synonyms for the chemicals.

Synonym ID#: A 1-6 digit identification number that you assign to uniquely define each chemical. When you do an add, the next available number will be entered into this field as a default.

Synonym: Enter Up to 55 characters to represent the synonym.

Chemical ID#: The ID number of the chemical the synonym stands for. The chemical's common name will be displayed with the ID.

Chemical Synonym ID#s entered by the shipyard will be required to be greater than 50000 so that there is no cross over between CHEM Master and the yard specific Synonym ID#s.

Process Where a Product is Used

F PROC	<u>PROCESS WHERE A PRODUCT IS USED</u>
PROCESS ID NUMBER: _ (AUTO FILL)	
DESCRIPTION: _____	
F1=HELP ESC=EXIT	
F=Find E= Enter U= Update D=Del etc	

The Process Where a Product is Used application is used to maintain a list of the various processes that a product may be used in.

Process ID#: A 1-4 digit identification number that you assign to uniquely define each process.

Description: Enter a description of the process using up to 25 characters.

Area in Which a Product is Used

F AREA	<u>AREA IN WHICH A PROOUCT IS USED</u>
AREA ID NUMBER: _	
SHORT DESCRIPTION: _	
LONG DESCRIPTION: _____	
F1=HELP ESC=EXIT	
F=Find E= Enter U= Update D= Del etc	

The Area in Which a Product is Used application is used to maintain a list of various areas within a department where containers may be stored. Areas could be as large as a warehouse or as small as a shelf. The user can identity the area to be whatever the user wants. The Area ID number and description are displayed along with the Department ID.

Area ID#: A 1-4 digit identification number that you assign to uniquely define each area.

Department: Enter the department ID to indicate the department the area is in. The description of the department will be displayed along with the ID.

Area Description: A description of up to 30 characters to define the Area.

History of Product Qtys Used or Added

F PQUA		<u>HISTORY OF PRODUCT QTYS RCVD OR USED</u>	
CONTAINER ID NUMBER: _____			
HAZARDOUS PRODUCT ID NUMBER: _____			
PLANT: _____			
PROCESS ID NUMBER: _____			
AREA ID NUMBER: _____			
EMPLOYEE INITIATING REQUEST: _____			
DATE PRODUCT USED OR RECEIVED: __/__/__			
QUANTITY RECEIVED: _____ (POUNDS)			
QUANTITY USED: _____ (POUNDS)			
VOC EMISSIONS AMOUNT: _____ (POUNDS)			
TIME ENTERED: __:__:__ DATE ENTERED: __/__/__ USERNAME: _____			
F1=HELP ESC=EXIT			
CTRL: F=FOUND, D=DELETE			

The History of Product Qtys Used or Added application stores a record each time a record is entered, moved or has material removed. This application does not allow any Enter or Update. The only operation allowed is a Find or a Delete. All amounts in this application are measured in pounds.

Cent ID#: The container ID# assigned to the container.

Hazardous Product ID#: The Hazardous Product ID# of the Hazardous product in the container.

Process ID#: The current process that the container is assigned to.

Area ID#: The current area ID# assigned to the container.

Employee Initiating Request: The employee that is moving the material or using the material.

Date Product Used or Received: The date the product is used or received.

Quantity Received: The amount received in pounds. The data comes from the Container application.

Quantity Used: The amount used in pounds. The data comes from the Mass entry application.

VOC Emissions Amount: VOCs emitted in pounds. Makes use of the VOCs amount entered in the Hazardous Product application.

As mentioned earlier, history records can only be deleted. The records found in the Container History application are created in the Mass Entry application and the Container application.

Chemical Mixtures and Component Chemicals

F CHEMCHEM	<u>CHEMICAL MIXTURES AND COMPONENT CHEMICALS</u>
CHEMICAL ID NUMBER FOR MIXTURE: .	
cAs#1: _____ NAME1: _____	
CHEMICAL ID NUMBER FOR MIXTURE COMPONENT: _____.	
CA#2: _____ NAME2: _____	
LOW PERCENTAGE IN THIS MIXTURE _____ (PERCENT)	
HIGH PERCENTAGE IN THIS MIXTURE _____ (PERCENT)	
TENDS TOWARDS <= OR >= OF PERCENT LOW: _ (L/G)	
F1=HELP ESC=EXIT	
F=Find E=Enter U=Update D=Delete	

The Chemical Mixtures and Component Chemicals application is used to identify chemicals that are made up of other chemicals. The table will display the Chemical ID, the Chemical ID of the components and the High and Low percentages of the component chemical.

There are five data entry fields and two display fields. Chem. ID# and Comp. ID# are both chemical ID numbers for which there are mini-tables' and for which the descriptions of the chemical will be displayed. The Low and High percentages are the percentage of the chemical that the components make up.

Note: This application does not affect Tier II reporting.

Chemical Components of an HP

F HPCHEM		<u>CHEMICAL COMPONENTS OF AN HP</u>	
HAZARDOUS PRODUCT ID NUMBER: _____.			
CHEMICAL ID NUMBER: _____.			
LOW PERCENTAGE IN THIS PRODUCT		_____. %	
HIGH PERCENTAGE IN THIS PRODUCT		_____. %	
HPCHEM: _____.			
F1=HELP		ESC=EXIT	
		CTRL Y = MASS ENTRY	
F=Find E=Enter U=Update D=Delete			

The Chemical Components of an HP application contains a listing of chemicals associated with each hazardous-product. The Chemical Components of an HP application will usually be accessed via a CTRL L from the Hazardous Product application.

Prod ID#: This is the hazardous Product identification number. This number is six characters in length.

Chem ID#: This is the chemical's unique identification number.

LOW% and HIGH%: Each chemical makes up a certain percentage of a product. The amount of a chemical in a product may vary, and these two fields are used to enter the range of the chemical amounts.

The Chemical Components of an HP application allows mass entry of chemical component records. The mass entry screen can be invoked by pressing CTRL Y. Twelve records may be added at one time.

Hazardous Products Allowed in a Process

F PROCHP

HAZARDOUS PRODUCTS ALLOWED IN A PROCESS

PROCESS ID NUMBER: ____.

HAZARDOUS PRODUCT ID NUMBER: ____.

KEY PROCHP: ____.

F1=HELP ESC=EXIT

F=Find E=Enter U=Update D=Delete

The Hazardous Products Allowed in a Process application is used to maintain a list of the products that are allowed in each process. The table will display the Process ID/description and Product ID/description.

Container Status Change Mass Entry

S MASS

CONTAINER STATUS CHANGE MASS ENTRY

CNT#	AREA#	PROC#	DATE	EMPL	UNIT	QTY_USED
_____.	_____.	_____.	____/____/____.	_____.	_____.	_____.
_____.	_____.	_____.	____/____/____.	_____.	_____.	_____.
_____.	_____.	_____.	____/____/____.	_____.	_____.	_____.
_____.	_____.	_____.	____/____/____.	_____.	_____.	_____.
_____.	_____.	_____.	____/____/____.	_____.	_____.	_____.
_____.	_____.	_____.	____/____/____.	_____.	_____.	_____.
_____.	_____.	_____.	____/____/____.	_____.	_____.	_____.
_____.	_____.	_____.	____/____/____.	_____.	_____.	_____.
_____.	_____.	_____.	____/____/____.	_____.	_____.	_____.
_____.	_____.	_____.	____/____/____.	_____.	_____.	_____.
_____.	_____.	_____.	____/____/____.	_____.	_____.	_____.

USERNAME: _____.

PROCHPKEY: _____.

F1=HELP

CTRL: S=SEND TO HIST APP, N=EXIT

The Container Status Change Mass Entry application allows twelve records to be entered at one time. Its main purpose is to speed data entry by allowing the data entry person to review the last twelve records prior to committing them. All the records are sent to the Container History application. The Mass application has only one operation, [CTRL] [S]. CTRL S will send the data to the Container History application.

Cnt#: The container number that is losing material.

Area#: The area currently assigned to a container.

Proc#: The process currently assigned to the container.

Date: The date of the change. The date must be at least one day after the material was received. For example if received on 01/01/91 then the first day that material could be removed is 01/02/91. Material can be used the same day it is removed but it must still be entered as the next day. This deals with the way that HMTS calculates days on site. The window on this date field is +/- 7 days.

Empl: The employee initiating the change.

Unit: The units of the amount of material removed.

Qty Used: The amount of material used. This may be zero in the case of when a container is just being assigned to a different area or process. The value must not be less than zero. HMTS does not allow containers to be added to. In the case of a draw-down tank, each new addition of material will be given a unique container record. It would be possible for more than one container record to be open for draw-down tanks, but this is the only situation where this technique is recommended.

A special feature within the Container Status Change Mass Entry application will allow the user to quickly zero out a container without knowing the exact amount left. If the user enters "999.99" in the quantity used field, the container will be zeroed out.

Another special feature deals with discontinuing a container. If the amount used is 999.88 then the container will be discontinued. This would occur if for some reason a container was shipped out while still partially or completely full of material. This feature can also be used in draw down tanks. First, close the old container ID# and then add the remaining amount to the new amount and re-issue the a container ID#.

Although the Department is not identified in the Mass Entry application for each move or use each container is associated with a Department, and each Employee is also associated with a Department. This application will give a warning if an employee uses a container that is not assigned to his/her Department. The entry will not be prevented, simply warned. Report can be run to show which employees are using containers that do not belong to their respective Department.

Yard Audit

F AUDIT	<u>YARD AUDIT</u>
CONTAINER#: _____.	
AUDIT DATE: __/__/__. AUDIT TIME: __:__:__.	
AREA: ____.	
QUANTITY: _____. UNIT: ____.	
F1=HELP ESC=EXIT	
CTRL: F=Find	

The Yard Audit application has one purpose. It is used to accept data that is collected during a yard survey. Once the data has been collected via the Tricoder, the import routine found on the utilities menu can be invoked. The data will be imported to the Yard Audit application. Next, the Yard Audit Comparison report should be run. This report will compare container amounts found during the survey as compared to the amounts found in HMTS. Once the discrepancies have been identified, corrective action can be taken. Consequently, the Yard Audit application provides the HMTS user the ability to routinely monitor the integrity of the HMTS data.

Hazardous Product Marine Coating

F HPMC	<u>HAZARDOUS PRODUCT MARINE COATING</u>
HAZARDOUS PRODUCT ID NUMBER: _____.	
MARINE COATING CATEGORY: ____.	
F1=HELP ESC=EXIT	
F=Find E=Enter U=Update D=Delete	

The Hazardous Product Marine Coating application is used to identify which Marine Coating categories are associated with each hazardous chemical.

Marine Coatings VOC Limit Categories

F MCCAT	<u>MARINE COATINGS VOC LIMIT CATEGORIES</u>
COATING CATEGORY: ____.	
G/LITER LIMITS AS APPLIED 9/1/89: ____.	
COATING DESCRIPTION: _____.	
F1=HELP ESC=EXIT	
F=Find E=Enter U=Update D=Delete	

The Marine Coatings VOC Limit Categories application is used to maintain a list of the various types of coatings used in the shipbuilding industry. The table will display the Marine Coating Category Code, a description of the category and the VOC limit in grams per liter. There are three data entry fields but no display fields. The Marine Coating Code is a four-character field that uniquely defines the record. The VOC limit is the amount in grams/liter after which a release must be reported. The description can be up to 35 characters.

Storage Type

F STYP	<u>STORAGE TYPE</u>
STORAGE TYPE CODE: ____.	
DESCRIPTION: _____.	
F1=HELP ESC=EXIT	
F=Find E=Enter U=Update D=Delete	

The Storage Type application is used to maintain a list of the various types of containers used to store a induct. The table will display the Storage Type Code and description. Choose the record you wish to edit, and you will enter the Update/Browse Storage Type Record form. There are two data entry fields but no display fields. The Storage Code is a single-character field, and the description can be up to 35 characters.

HMIS Personal Protection Index

F HMIS PPI	<u>HMIS PERSONAL PROTECTION INDEX</u>
PERSONAL PROTECTION INDEX: _.	
REQUIRED PROTECTION: _____.	
F1=HELP ESC=EXIT	
F=Find E=Enter U=Update D=Delete	

The HMIS Personal Protection Index application is used to maintain the list of codes used to label a product or chemical according to the HMIS category of personal protection. After the search the codes and code description are displayed. The only two data entry fields are a single-character code and a 4-row by 17-character description of the code.

HMIS Hazard Index

F HMIS I	<u>HMIS HAZARD INDEX</u>
HAZARD INDEX: _.	
DESCRIPTION: _____.	
F1=HELP ESC=EXIT	
F=Find E=Enter U=Update D=Delete	

The HMIS Hazard Index application is used to maintain the list of codes used to label a product or chemical according to the HMIS categories of Health, Flammability and Reactivity. After the search the codes and code descriptions are displayed. The only two data entry fields are a single-character code and a 15-character code description.

NFPA Reactivity

F NFPARE	<u>NFPA REACTIVITY</u>
REACTIVITY CODE: _.	
DESCRIPTION: _____.	
F1=HELP ESC=EXIT	
F=Find E=Enter U=Update D=Delete	

The NFPA Reactivity application is used to maintain the list of codes used to label a product or chemical according to the NFPA category of Reactivity Hazard. After the search the codes and code descriptions are displayed. The only two data entry fields are a single-character code and a 23-character code description.

NFPA Special Notice

F NFPASN	<u>NFPA SPECIAL NOTICE</u>
SPECIAL NOTICE CODE: _.	
ABBREVIATED DESCRIPTION: ____.	
DESCRIPTION: _____.	
F1=HELP ESC=EXIT	
F=Find E=Enter U=Update D=Delete	

The NFPA Special Notice application is used to maintain the list of codes used to label a product or chemical according to the NFPA category of Health Hazard. After the search the four-character abbreviation and a description of each code will be displayed. There are three data entry fields: single character code, four-character abbreviation and 23-character code description.

NFPA Health Hazards

F NFPAHH	<u>NFPA HEALTH HAZARDS</u>
HEALTH HAZARD CODE: _.	
DESCRIPTION: _____.	
F1=HELP ESC=EXIT	
F=Find E= Enter U= Update D=Del etc	

The NFPA Health Hazards application is used to maintain the list of codes used to label a product or chemical according to the NFPA category of Health Hazard. After the search the codes and code descriptions are displayed. The only two data entry fields are a single-character code and a 23-character code description.

NFPA Fire Hazards

F NFPAFH	<u>NFPA FIRE HAZARDS</u>
FIRE HAZARD CODE: _.	
DESCRIPTION: _____.	
F1=HELP ESC=EXIT	
F=Find E= Enter U= Update D=Del etc	

The NFPA Fire Hazards application is used to maintain the list of codes used to label a product or chemical according to the NFPA category of Fire Hazard. After the search the codes and code descriptions are displayed. The only two data entry fields are a single-character code and a 23-character code description.

Pressure Condition

F PCOND	<u>PRESSURE CONDITION</u>
PRESSURE TYPE CODE FOR TIER II REPORT: _.	
DESCRIPTION: _____.	
F1=HELP ESC=EXIT	
F=Find E= Enter U= Update D= Delete	

The Pressure Condition application is used to maintain a list of the various conditions may be required to store a container containing a hazardous product. In the data entry screen there are two entry fields: single-character Pressure Code and 35-character code description.

Temperature Condition

F TCOND	<u>TEMPERATURE CONDITION</u>
TIER II TEMPERATURE TYPE CODE: -	
TEMPERATURE TYPE DESCRIPTION: _____.	
F1=HELP ESC=EXIT	
F=Find E= Enter U= Update D=Delete	

The Temperature Condition application is used to maintain a list of the various conditions that may be required to store a container containing a hazardous product. After a search the codes and code description are displayed. In the data entry screen there are two entry fields: single-character Temperature Code and 35-character code description.

Tier II Reporting Ranges

FTTRANGE	<u>TIER II REPORTING RANGES</u>
REPORTING RANGE FOR TIER II REPORT: _.	
LOWER VALUE FOR THIS CODE: _____. (POUNDS)	
UPPER VALUE FOR THIS CODE: _____. (POUNDS)	
F1=HELP ESC=EXIT	
F=Find E= Enter U=Update D=Del etc	

The Tier II Reporting Ranges application is used to maintain a list of reporting range codes specified to be used on Tier II reporting forms. The amount of a chemical on hand will fall within one of the ranges. Each range will have a unique code.

Container Unit

F UNIT	<u>CONTAINER UNIT</u>
CONTAINER UNIT CODE: _.	
UNIT DESCRIPTION: _____.	
FACTOR TO CONVERT TO GALLONS: _.	
FACTOR TO CONVERT TO POUNDS: _.	
F1=HELP ESC=EXIT	
F=Find E= Enter U= Update D=Del etc	

The Container Unit application is used to maintain a list of the various units of measurement used to indicate the amount of a product in a container. The table will display the Container Units Code and a description of the units. There are four data entry fields but no display fields.

Unit Code: A single-character field used to uniquely identify the record. Can be up to 35 characters.

Unit Description: Description of the container unit.

Factor to Convert to Gallons: If the material is a liquid, this is the factor used to convert the material from a measurement other than gallons to gallons.

Factor to Convert to Pounds: If the material is a solid, this the the factor used to convert material from a measurement other than pounds to pounds.

The user is warned that changes in the Unit application need to be addressed in the history file.

Company Data

F CODATA		<u>COMPANY DATA</u>		KEY: _.	
COMPANY: _____.					
ADDRESS1 _____.					
ADDRESS2 _____.					
CITY _____ STATE ____ ZIP CODE ____-____.					
SIC CODE: ____ DUN & BRAD NUMBER: _____.					
OPERATOR: _____.					
ADDRESS1 _____.					
ADDRESS2 _____.					
CITY _____ STATE ____.					
ZIP CODE ____-____.					
EMERGENCY CONTACT _____.				TITLE _____.	
PHONE NUMBER ____-____.				24 HOUR PHONE ____-____.	
EMERGENCY CONTACT _____.				TITLE _____.	
PHONE NUMBER ____-____.				24 HOUR PHONE ____-____.	
F1=HELP ESC=EXIT					
CTRL: F=Find, U=UPDATE					

The Company Data application maintains the header information used on the Tier II report. The company data also provides the company name which is stamped in the upper left corner of every report.

Departments

F DEPT	<u>DEPARTMENT MASTER</u>
DEPARTMENT NUMBER: _.	
DEPARTMENT NAME: _____.	
F1=HELP ESC=EXIT	
F=Find E= Enter U= Update D= Delete	

The Departments application is used to maintain a list of the departments where an employee may be assigned or a container is stored.

Department ID#: A 1-5 character identification number that you assign to define each department.

Description: A description of up to 40 characters to define the department.

Employees

F EMPL	<u>EMPLOYEE MASTER</u>
EMPLOYEE NUMBER: _.	
LAST_NAME: _____.	
FIRST_NAME: _____.	
MIDDLE INITIAL: _.	
DEPT: _.	
F1=HELP ESC=EXIT	
F=Find E=Enter U=Update D=Delete	

The Employees application is used to maintain a list of all employees and the department they work in.

Employee ID#: A 1-5 digit identification number that you assign to define each Employee.

Last Name: The employee's last name. May be up to 16 characters.

First Name: The employee's first name. May be up to 9 characters.

MI: The employee's middle initial.

Department: The department where the employee currently works.

Section 302 Chemicals

F TPQ302	<u>SECTION 302 CHEMICALS - EHS'S WITH TPO'S</u>
CHEMICAL ID NUMBER:_. CAS#:_____.	
NAME: _____.	
THRESHOLD PLANNING QTY - LIQ, GAS, FINE PART: _ (POUNDS)	
THRESHOLD PLANNING QTY - GENERATED SOLIDS: _ (POUNDS)	
F1=HELP EXIT=ESC	
F=Find E= Enter U= Update D=Delete	

Under Sections 302 of SARA Title III, any facility that produces, uses or stores any of over 400 chemicals classified as extremely dangerous in amounts greater than established threshold amounts must notify state emergency response commissions.

The Section 302 Chemicals application is used to hold the chemical ID numbers of these chemicals and the Threshold Planning Quantities. The only data entry fields are chemical ID number, for which there is a mini-table. The chemical's name will be displayed. The other two fields are for the two-tier TPQ limits established by the government.

Section 304 Chemicals

F RQ304	<u>SECTION 304 CHEMICALS - EHS'S + CERCLA WITH RO'S</u>
CHEMICAL ID NUMBER:_. CAS#:_____.	
NAME: _____.	
REPORTABLE QUANTITY:_. (POUNDS)	
F1=HELP ESC=EXIT	
F=Find E=Enter U=Update D=Delete	

Under Sections 304 of SARA Title III, any release of chemicals in excess of set amounts must be reported to local authorities. This table is used to maintain the list of reportable chemicals and the amount that a release must be before it is reported. The only data entry fields are chemical ID number, for which there is a mini-table, and the chemical's name will be displayed. The Reportable Quantity is the amount established by the government.

Section 313 Toxic Chemicals

F TOX313	<u>SECTION 313 TOXIC CHEMICALS</u>
CHEMICAL ID NUMBER: .	
CAS#: _____	
NAME: _____	
F1=HELP ESC=EXIT	
F=Find E= Enter U= Update D=Delete	

Under Sections 313 of SARA Title III, the total yearly release of certain toxic chemicals must be reported yearly to the EPA and state officials. This file is a listing of all the chemicals that fall under this act. The only data entry field is chemical ID number. The chemical's name will be displayed.

OSHA Hazardous Chemicals

F OSHA	<u>OSHA HAZARDOUS CHEMICALS</u>
CHEMICAL ID NUMBER: .	
CAS#: _____	
NAME: _____	
F1=HELP ESC=EXIT	
F=Find E= Enter U= Update D=Delete	

Under Sections 311 and 312 of SARA Title III, the Occupational Safety and Health Administration's (OSHA) Material Safety Data Sheet (MSDS) regulations are the trigger for Title III MSDS and chemical inventory reporting requirements. This file is a listing of all the chemicals that fall under these acts.

California AB2588 A-I Chemicals

F E2588	<u>CALIFORNIA AB2588 A- I CHEMICALS! EMISSIONS</u>
CHEMICAL ID NUMBER: .	
CARCINOGENIC: _ (Y/N)	
CAS#: _____.	
NAME: _____	
F1=HELP ESC=EXIT	
F=Find E=Enter U=Update D=Delete	

The California AB2588 A-I Chemicals application is used to maintain a list of all chemicals that are considered Carcinogens by California AB2588 A-I. There are no search fields, and the data is filled in automatically. The table displays the Chemical Code and Y(es) or N(o). . The first is the chemical ID number, for which there is a mini-table. The chemical's name will be displayed. The other is a single character, Y(es) or N(o), as to whether the chemical is a carcinogen.

California AB2588 A-II Chemicals

F P2588	<u>CALIFORNIA AB2588 A-II CHEMICALS! PRODUCE, USE OR PRESENCE</u>
CHEMICAL ID NUMBER: .	
CARCINOGENIC: _ (Y/N)	
CAS#: _____.	
NAME: _____	
F1=HELP ESC=EXIT	
F=Find E=Enter U=Update D=Delete	

The California AB2588 A-Ii Chemicals application is used to maintain a list of all chemicals that are considered Carcinogens by California AB2588 A-II. The table displays the Chemical Code and Y(es) or N(o). There are only two data entry fields. The first is chemical ID number, for which there is a mini-table. The chemical's name will be displayed. The other is a single character, Y(es) or N(o), as to whether the chemical is a carcinogen.

Contract Master

F CONT	<u>CONTRACT MASTER</u>
CONTRACT NUMBER: _.	
DESCRIPTION: _____.	
F1=HELP ESC=EXIT	
F=Find E= Enter U= Update D=Delete	

The Contract Numbers application should be used to differentiate containers in the shipyard with respect to contract numbers. The contract number may refer to one ship in for repair or it may reflect many ships of a multi-hull contract.

Contract Number: Contract number that material is assigned.

Contract Description: A 30 character description of the Contract.

Hull Numbers

F HULL	<u>HULL MASTER</u>
HULL NUMBER: _.	
DESCRIPTION: _____.	
CONTRACT: _.	
KEY: _____.	
F1=HELP ESC=EXIT	
F=Find E= Enter U= Update D=Delete	

The Hull Numbers application maintains the numbers of a multi-hull contract.

SWBS Numbers

F SWBS	<u>SHIPWORK BREAKDOWN STRUCTURE (SWBS) MASTER</u>
SWBS NUMBER: _.	
DESCRIPTION: _____	
F1=HELP ESC=EXIT	
F=Find E= Enter U= Update D= Delete	

The SWBS (Ship Work Breakdown Structure) application maintains the valid SWBS numbers.

ID# Counter Master

F COUNTS	<u>ID# COUNTER MASTER</u>
UNIQUE ID NUMBERS	
HAZARDOUS <u>PRODUCT</u> :	1: ____.
<u>CHEMICAL</u> :	2: ____.
CHEMICAL <u>SYNONYM</u> :	3: ____.
MANUFACTURER: _.	4: _.
PROCESS: _.	5: _.
BARCODE HP <u>ID#</u> :	6: ____.
KEYDATA: _.	
F1=HELP ESC=EXIT	
CTRL: U=UPDATE	

The ID# Counter Master application is an application that only the system manager should access. This application keeps track of the next ID# to be used for several applications. The ID#s maintained by the ID# Counter application will be automatically incremented irregardless of what the user types in the ID# field.

Plants or Sites

F PLANT	<u>PLANT OR SITE MASTER</u>
PLANT OR SITE:	
PLANT OR SITE DESCRIPTION: _____	
F1=HELP ESC=EXIT	
F=Find E= Enter U= Update D=Delete	

The Plants or Sites application is used to maintain a list of various plants or sites within a company. The Plant identification is to be made for each container. The Plant or site is used to separate information for Tier II reporting.

Plant ID#: A 1-4 digit identification number that YOU resign to uniquely define each Plant.

Plant Description: A description of up to 30 characters to define the Plant.

Report Menus

<u>REPORT MENU</u>	
<u>REPORTS</u>	
61. CONTAINERS BY DEPT AND AREA	71. CHEMICAL INVENTORY ON HAND
62. CONTAINER HISTORY	72.
63. HAZARDOUS PRODUCT AMTS ON HAND	73.
64. ROUTINE VOC EMISSIONS	74.
65. TIER II SARA REPORT	75.
66. YARD AUDIT COMPARISON	76.
67. NON-CHEMMASTER CHEMICALS	77.
68. EXPIRED CNTRS WRT SHELF LIFE	78.
69. INVALID CHANGES/MOVES	79.
70. INVALID PROCESS WITH AN HP	80.
888. SIGNON MENU 999. SIGNOFF	
**** PGDN FOR MASTER REPORT MENU ****	
SEL <input type="text"/>	
F1 HELP	

Reports 61-71 are the major reports of the system. These reports should be used on a daily basis by the system users and administrators to monitor the shipyard's hazardous containers. These reports also summarize data for reporting requirements.

MASTER REPORT MENU

MASTER REPORTS

- | | |
|------------------------------------|---------------------------------------|
| 81. HAZARDOUS PRODUCT/MARINE CTG | 91. TEMPERATURE CONDITION |
| 82. MARINE CTGS/VOC LMT CATEGORIES | 92. TIER II REPORTING RANGES |
| 83. STORAGE TYPE | 93. CONTAINER UNIT |
| 84. HMIS PERSONAL PROTECTION INDEX | 94. CHEMICAL COMPONENTS OF AN HP |
| 85. HMIS HAZARD INDEX | 95. CHEMICAL MIXTURES AND COMP CHEMS |
| 86. NFPA REACTIVITY | 96. HAZ PRODUCTS ALLOWED IN A PROCESS |
| 87. NFPA SPECIAL NOTICE | 97. SECTION 302 CHEMICALS |
| 88. NFPA HEALTH HAZARD | 98. SECTION 304 CHEMICALS |
| 89. NFPA FIRE HAZARD | 99. SECTION 313 TOXIC CHEMICALS |
| 90. PRESSURE CONDITION | 100. OSHA HAZARDOUS CHEMICALS |

888. SIGNON MENU 999. SIGNOFF

**** PGDN FOR MASTER REPORT MENU (CONT.) ****

SEL ____.

F1 HELP

MASTER REPORT MENU (CONT.)

MASTER REPORTS

- | | |
|--------------------------------------|--------------------------------------|
| 101. CA AB2588 A-I CHEMICALS | 111. CHEMICAL SYNONYM |
| 102. CA AB2588 A-II CHEMICALS | 112. PRODUCTION PROCESSES |
| 103. CONTRACT NUMBERS | 113. AREA IN WHICH PRODUCT IS USED |
| 104. HULL NUMBERS | 114. HAZARDOUS CHEMICALS |
| 105. SWBS NUMBERS | 115. CONTAINER FOR HAZARDOUS PRODUCT |
| 106. EMPLOYEES | 116. PLANT OR SITE ID |
| 107. DEPARTMENTS | 117. |
| 108. PRODUCT MANUFACTURER | 118. |
| 109. HIST OF PROD QTYS USED OR ADDED | 119. |
| 110. HAZARDOUS PRODUCT | 120. |

888. SIGNON MENU 999. SIGNOFF

**** PGDN FOR UTILITY MENU ****

SEL ____.

F1 HELP

Major Reports

Sample reports have been run for each report menu option. Each report represents only a portion of the actual report.

Report 61: Containers by Department and Area

Report 61 lists all the containers sorted by Department and Area. This report should be handed out to Department Supervisors in order to make them aware of what hazardous containers they are responsible for. This report should be marked up by the Department Supervisor and handed into the HMTS system manager for updating.

Report 62: Container History

Report 62 lists the history of a certain container. In the event a container is lost or some other characteristic of the container is in question, this report may provide the necessary information about the container to draw the proper conclusion.

Report 63: MSDS Inventory--Products on Hand

Report 63 will calculate a total on-hand amount of each hazardous product currently loaded into the system. This type of information would be very helpful in determining ordering amounts. This report would also be helpful in performing hazardous waste minimization tasks.

Report 64: Routine VOC Emissions by Department and Area

Report 64 calculates the total amount of VOCs released when a product is used. This report should provide helpful information in completing the 313 reporting requirements. This report should also be used to help meet the intent of the Marine Coating role.

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/17/92
REPORT#: 61
PAGE#: 1

CONTAINERS BY DEPARTMENT AND AREA

DEPT: 0001 INSIDE DIVISION

AREA: 0001 BUILDING 21 TOOL ROOM

CONT#	PACK#	DESCRIPTION	CONT TYPE	PKGS TYPE	TYPE	CURRENT QUANTITY	ONLY DATE RECEIVED	LAST CORRE
000000	001000	KIL-P END DYE	D	1	5	75	P 01/01/91	01/01/91

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/17/92
REPORT#: 62
PAGE#: 1

CONTAINERS HISTORY FROM: 01/10/91 TO 01/31/91

REV/REV DATE	CONT#	PACK#	PRODUCT DESCRIPTION	DATE/NAME	CURRENT QUANTITY LBS	QUANTITY LBS	QUANTITY LBS
01/10/91	000000			1 ADLER, BARBARA	0.0000	5.0000	
				CURRENT CORRE QTY/AMT:	47 G	42 P	
01/10/91	000011			15 OLSON, MERRIN	0.0000	88.0000	
				CURRENT CORRE QTY/AMT:	12 P	12 P	
01/10/91	000016	000100	100 SPECIAL SOLVENT	5 FARRIS, CHRIS	0.0000	42.0000	
				CURRENT CORRE QTY/AMT:	124 P	124 P	
01/10/91	000017			14 BROWN, SARAH	0.0000	51.6750	
				CURRENT CORRE QTY/AMT:	0 P	0 P	
01/10/91	000021			15 OLSON, MERRIN	0.0000	0.2500	
				CURRENT CORRE QTY/AMT:	300 P	300 P	
01/10/91	000048			6 FENNER, MICHAEL	0.0000	1.0120	
				CURRENT CORRE QTY/AMT:	404 P	404 P	
01/10/91	000075			3 CARMICHAEL, STEPHEN	0.0000	7.0000	
				CURRENT CORRE QTY/AMT:	103 Q	103 P	
01/10/91	000079	000075	IN SOLVENT	9 ISHAKIAN, STEVEN	0.0000	62.0000	
				CURRENT CORRE QTY/AMT:	736 P	736 P	
01/10/91	000091				82.2000	0.0000	
				CURRENT CORRE QTY/AMT:	82 P	82 P	
01/10/91	000092				295.6750	0.0000	
				CURRENT CORRE QTY/AMT:	12 G	296 P	
01/10/91	000093				3.2525	0.0000	
				CURRENT CORRE QTY/AMT:	52 Q	3 P	
01/10/91	000094				0.2277	0.0000	
				CURRENT CORRE QTY/AMT:	104 B	0 P	

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/17/92
REPORT#: 63
PAGE#: 1

MSDS INVENTORY: PRODUCTS ON HAND

MSDS#	DESCRIPTION	CONT#	CONT STATUS	CURRENT QUANTITY RECEIVED	CURRENT QUANTITY USED	DATE RECEIVED
000001	ETHYLENE GLYCOL	000000	F 1 4	100.0000	0.0000	01/01/91
		000000	F 1 4	0.0000	0.0000	01/01/91
		000000	F 1 4	0.0000	0.0000	01/01/91
		000000	F 1 4	0.0000	0.0000	01/01/91
				PRODUCT TOTAL POUNDS ON HAND:		100
000002	ETHYLENE GLYCOL	000000	D 1 4	123.2500	0.0000	01/01/91
		000000	D 1 4	0.0000	100.0000	01/01/91
		000000	X 1 4	10.0000	0.0000	01/01/91
		000000	D 1 4	200.0000	0.0000	01/01/91
		000000	D 1 4	0.0000	0.0000	01/01/91
		000000	D 1 4	0.0000	2.2500	01/01/91
		000000	D 1 4	0.0000	2.1307	01/01/91
		000000	D 1 4	0.0000	2.3104	01/01/91
		000000	D 1 4	0.0000	0.6431	01/01/91
		000000	D 1 4	0.0000	62.0000	01/01/91
		000000	G 1 3	1320.0000	0.0000	01/01/91
		000000	G 1 3	0.0000	6.7700	01/01/91
		000000	G 1 4	2305.0000	0.0000	01/01/91
		000000	F 1 4	0.0000	0.0000	01/01/91
				PRODUCT TOTAL POUNDS ON HAND:		3000
000003	ETHYLENE GLYCOL	000000	X 1 4	100.0000	0.0000	01/01/91
		000000	D 1 4	500.0000	0.0000	01/01/91
		000000	D 1 4	0.0000	000.0000	01/01/91
		000000	X 1 4	32.0000	0.0000	01/01/91
		000000	X 1 4	0.0000	32.0000	01/01/91
		000000	D 1 4	32.0000	0.0000	01/01/91
		000000	X 1 4	50.0000	0.0000	01/01/91
		000000	J 1 4	85.0000	0.0000	01/01/91
		000000	O 1 4	120.0000	0.0000	01/01/91
				PRODUCT TOTAL POUNDS ON HAND:		800
000004	2-PHENYLPHENOL, 99%	000000	C 2 4	1000.0000	0.0000	01/01/91
		000000	C 2 4	0.0000	50.0000	01/01/91
		000000	D 1 4	1200.0000	0.0000	01/01/91
		000000	D 1 4	0.0000	22.0000	01/01/91
		000000	X 1 4	940.0000	0.0000	01/01/91
		000000	X 1 4	0.0000	10.0000	01/01/91
		000000	X 1 4	0.0000	90.0000	01/01/91
		000000	X 1 4	110.0000	0.0000	01/01/91
		000000	C 1 4	227.7000	0.0000	01/01/91
				PRODUCT TOTAL POUNDS ON HAND:		3000

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 64
PAGE#: 1

ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA
FROM: 01/01/91 TO 01/31/91

EPID#: 005012 TRADE NAME: BARIUM COMPOUNDS
VOCs LBS/GAL: 4.0000 LBS/GAL
CATEGORY:
MARINE COATING RULE GRAMS/LITER:

DEPARTMENT: 0029 RIGGING

AREA: 0001 PAINT DEPARTMENT SMALL PARTS ROOM

CONT#	DATE	VOCs (LBS)
000001	01/01/91	5.0000
	AREA TOTAL VOC EMISSIONS (LBS):	5
	AREA TOTAL VOC EMISSIONS (GRAMS):	2273
	DEPT TOTAL VOC EMISSIONS (LBS):	5
	DEPT TOTAL VOC EMISSIONS (GRAMS):	2273

Report 65: Sara Tier II - Emergency and Chemical Inventory

Report 65 attempts to reproduce the necessary information for the Tier II reporting requirements. This report can be recreated through the year, thus giving the environmental staff an early warning with respect to the information they will be required to submit to the government on March 1 of every year.

Report 66: Comparison of Yard Containers vs. Equivalent System Containers

Report 66 works in tandem with the Tricoder recording device. After data has been collected from the yard and imported to HMTS, this report should be run. Report 66 will provide a comparison of each container with respect to HMTS amounts versus the yard audit amounts.

Report 67: Non-CHEM Master Chemicals

Report 67 lists all the chemicals that have been added by the shipyard contrary to being imported via CHEM Master.

Report 68: Expired Containers with respect to Shelf Line

Report 68 lists all containers that have a limited time remaining of their shelf life. This report is intended to help the shipyard avoid disposing of material simply because it sat on the shelf too long. This can be a very costly result, especially since the costs of disposing of hazardous material has increased dramatically.

Report 69: Containers Used by Employees of a Invalid Department

This report lists the employees that have used material from containers that do not belong to the department of the employee.

Report 70: Invalid Process With an Hazardous Product

HMTS will allow data entry of container usage by unapproved processes. Data entry is not curtailed by this action. But, a report can be run which identifies which processes were used on incorrect hazardous products.

Report 71: Chemical Inventories on Hand

This report lists pounds of chemicals on hand in the shipyard. The report totals the pounds of chemicals falling under the lists Toxic 313 Chemicals, OSHA Chemicals, and AB2588 lists I and II Chemicals. High percent totals are also calculated.

REPORT DATE: 01/14/92
REPORT#: 69
PAGE#: 1

CONTAINERS THAT WERE MOVED OR DRAWN DOWN BY EMPLOYEES FROM INVALID DEPTS

CNT#	HPID#	PROC AREA	EMPL	DEPT	DATE	USED POUNDS	VOC AMT POUNDS	
0000075	005031	0023	0007	3	0003	01/10/91	7.0000	0.0000
0000016	005015	0014	0022	5	0004	01/10/91	62.0000	0.0000
0000048	005023	0018	0002	6	0004	01/10/91	1.0120	0.0134
0000079	005027	0012	0001	9	0005	01/10/91	62.0000	0.1798
0000017	005018	0014	0004	14	0008	01/10/91	53.6750	21.0000
0000021	005025	0001	0008	15	0001	01/10/91	0.2595	0.0000
0000011	005020	0023	0021	15	0008	01/10/91	88.0000	0.5368

REPORT DATE: 01/14/92
REPORT#: 70
PAGE#: 1

HAZARDOUS PRODUCTS THAT WERE USED IN AN INVALID PROCESS

CNT#	HRID#	PROC AREA	EMPL	DEPT	DATE	USED POUNDS	VOC AMT POUNDS
000075	005031	0023 0007	3	0003	01/10/91	7.0000	0.0000
000016	005015	0014 0022	5	0004	01/10/91	62.0000	0.0000
000048	005023	0018 0002	6	0004	01/10/91	1.0120	0.0134
000079	005027	0012 0001	9	0005	01/10/91	62.0000	0.1798
000017	005018	0014 0004	14	0008	01/10/91	53.6750	21.0030
000021	005020	0001 0008	15	0008	01/10/91	0.2595	
000011	005020	0023 0021	15	0008	01/10/91	88.0000	0.5368

REPORT DATE: 01/17/92
REPORT#: 71
PAGE#: 1

CHEMICAL INVENTORY ON HAND + SPECIALS LIST TOTALS

CHN049 CHN	DESCRIPTION	TOT	CHH	AAL	AHE	CHH	CHH
		KC	KC	KC	KC	QTY	QTY
						LOW	HIGH
000006	00006L3 ACIDIA	0	0	0	0	0	0
000006	03205 ACIDIPANHYDRE	0	0	0	0	86	173
000006	79370 ACIDIPROBENONE	0	0	0	0	0	0
000006	64537 ACETIC ACID, GLACIAL	0	0	0	0	136	504
000006	50706 ACETOXYACETYLIC ACID	0	0	0	0	1778	2333
000009	242003 C.I., ACID ORANGE 45	0	0	0	0	49	62
000021	3547004 C.I., ACID RED 86	0	0	0	0	2061	2554
000024	174000 AZOULIN	0	0	336	0	168	336
000037	107138 ACRYLAMIDE	0	0	0	0	0	0
000038	50760 ACRYLAMIDES D	0	0	0	0	0	0
000040	130000 BUTYRIC ACID	0	0	0	0	184	551
000043	23010000 BROMOBENZENE	0	0	0	0	0	0
REPORT TOTALS:		0	0	336	0	4660	5011

Master Reports

Reports 81-116 are all master reports. These reports list all the data within a particular application. The main purpose of this report is to provide the HMTS management with the ability to review data within the system in a hard copy format.

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/17/92
REPORT#: 81
PAGE#: 1

HAZARDOUS PRODUCT VIA MARINE COATING RULE RAW DATA

HAZARDOUS PRODUCT ID#	COATING CATEGORY
000014	AF
000014	TC
000050	AF
000050	ANTC
000055	ANTC
000055	EHGA
000100	EHGA
000100	EHGB
000150	EHGB
000200	EHGB
005016	TC

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 82
PAGE#: 1

VOC LIMIT CATEGORIES FOR MARINE COATINGS

COATING CATEGORY	G/LITER	COATING DESCRIPTION
AF	440	ANTIFOULANT
ANTC	680	ANTENNA COATING
EHGA	490	EXTREME HIGH-GLOSS - AIR DRIED
EHGB	420	EXTREME HIGH-GLOSS - BAKED
GAD	340	GENERAL - AIR DRIED
GSA	275	GENERAL - BAKED
HGA	420	HIGH GLOSS - AIR DRIED
HGB	360	HIGH GLOSS - BAKED
HRA	520	HEAT RESISTANT - AIR DRIED
HRB	445	HEAT RESISTANT - BAKED
HT	650	HIGH TEMPERATURE
IZ	650	INORGANIC ZINC
LAI	490	LOW ACTIVATION INTERIOR
ME	420	MILITARY EXTERIOR
NA	550	NAVIGATIONAL AIDS
PTMP	780	PRE-TREATMENT WASH PRIMER
RMT	650	REPAIR AND MAINTENANCE THERMOPLASTIC
SI	420	SPECIALTY INTERIOR
SM	490	SPECIAL MARKING
SWSA	610	SEALANT FOR WIRE-SPRAYED ALUMINUM
TC	610	TACK COAT
UNSA	420	UNDERSEA WEAPONS SYSTEMS - AIR DRIED
UNSB	360	UNDERSEA WEAPONS SYSTEMS - BAKED

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 83
PAGE#: 1

STORAGE TYPES

STORAGE TYPE CODE	DESCRIPTION
A	ABOVE GROUND TANK
B	BELOW GROUND TANK
C	TANK INSIDE BUILDING
D	STEEL DRUM
E	PLASTIC OR METALLIC DRUM
F	CAN
G	CARBOY
H	SILO
I	FIBER DRUM
J	BAG
K	BOX
L	CYLINDER
M	GLASS BOTTLES OR JUGS
N	PLASTIC BOTTLES OR JUGS
O	TOTE BIN
P	TANK WAGON
Q	RAIL CAR
R	OTHER
S	BELOW GROUND TANK--FIBERGLASS

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 84
PAGE#: 1

HMIS PERSONAL PROTECTION INDEXES

HMIS PERSONAL PROTECTION INDEX	HMIS PERSONAL PROTECTION REQUIRED
?	UNKNOWN
A	SAFETY GLASSES
B	SAFETY GLASSES + GLOVES
C	SAFETY GLASSES + GLOVES + SYNTHETIC APRON
D	FACE SHIELD + GLOVES + SYNTHETIC APRON
E	SAFETY GLASSES + GLOVES + DUST RESPIRATOR
F	SAFETY GLASSES + SYNTHETIC APRON + DUST RESPIRATOR
G	SAFETY GLASSES + GLOVES + VAPOR RESPIRATOR
H	SPLASH GOGGLE + GLOVES + SYN APRON + VAPOR RESPIR
I	SAFETY GLASSES + GLOVES + DUST & VAPOR RESPIRATOR
J	SPLASH GOGG + GLOVES + SYN APRON + DUST & VAPOR RE
K	AIR LINE HOOD/HASK + GLOVES + FACE SHIELD + BOOTS
X	ASK SUPERVISOR

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 85
PAGE#: 1

HMIS HAZARD INDEXES

HAZARD INDEX	DESCRIPTION
0	MINIMAL HAZARD
1	SLIGHT HAZARD
2	MODERATE HAZARD
3	SERIOUS HAZARD
4	SEVERE HAZARD
?	UNKNOWN

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 86
PAGE#: 1

NFPA REACTIVITY CODES

REACTIVITY CODE	DESCRIPTION
0	STABLE
1	UNSTABLE IF HEATED
2	VIOLENT CHEMICAL CHANGE
3	SHOCK/HEAT MAY DETONATE
4	MAY DETONATE
?	UNKNOWN

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 87
PAGE#: 1

NFPA SPECIAL NOTICE CODES

CODE	SHORT DESCRIPTION	LONG DESCRIPTION
1	OX	OXIDIZER
2	ACID	ACID
3	ALK	ALKALI
4	CDR	CORROSIVE
5	NO W	USE NO WATER
6	RAD	RADIATION HAZARD
7	NONE	NONE

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 88
PAGE#: 1

NFPA HEALTH HAZARD CODES

HEALTH HAZARD CODE	DESCRIPTION
0	NORMAL MATERIAL
1	SLIGHTLY HAZARDOUS
2	HAZARDOUS
3	EXTREME DANGER
4	DEADLY
?	UNKNOWN

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 89
PAGE#: 1

NFPA FIRE HAZARD CODES

FIRE HAZARD CODE	DESCRIPTION
0	WILL NOT BURN
1	ABOVE 200 DEGREES F
2	BELOW 200 DEGREES F
3	BELOW 100 DEGREES F
4	BELOW 73 DEGREES F
?	UNKNOWN

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 90
PAGE#: 1

PRESSURE CONDITION CODES

CODE	DESCRIPTION
1	AMBIENT PRESSURE
2	GREATER THAN AMBIENT PRESSURE
3	LESS THAN AMBIENT PRESSURE

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 91
PAGE#: 1

TEMPERATURE CONDITION CODES

CODE	DESCRIPTION
4	AMBIENT TEMPERATURE
5	GREATER THAN AMBIENT TEMPERATURE
6	LESS THAN AMBIENT TEMPERATURE
7	CRYOGENIC

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 92
PAGE#: 1

TIER II REPORTING RANGES

REPORTING RANGE	LOWER VALUE	UPPER VALUE
00	0	100
01	100	1000
02	1000	10000
03	10000	100000
04	100000	1000000
05	1000000	10000000
06	10000000	50000000
07	50000000	100000000
08	100000000	500000000
09	500000000	1000000000
10	1000000000	5000000000

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 93
PAGE#: 1

CONTAINER UNIT'S CODE

CODE	DESCRIPTION	CONVERSION FACTOR TO GALLONS	CONVERSION FACTOR TO POUNDS
G	GALLONS	1.0000	
K	KILOGRAMS		2.2000
L	LITERS	2.6420	
O	OUNCES (WT)		0.0625
P	POUNDS	1.0000	
Q	QUARTS	0.2500	
R	GRAMS		0.0022
T	PINTS	0.1250	

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 94
PAGE#: 1

CHEMICAL COMPONENTS OF A HAZARDOUS PRODUCT

HP ID #	CHEM. ID #	LOW PCT OF CHEM. IN PRODUCT	HIGH PCT OF CHEM. IN PRODUCT
000014	000041	25.00	100.00
000014	000037	12.00	13.00
000014	000039	12.00	15.00
000014	000002	90.00	110.00
000014	000096	45.00	56.00
000050	000037	23.00	24.00
000050	000039	10.00	50.00
000050	000005	102.00	110.00
000055	000037	50.00	100.00
000055	000039	12.00	20.00
000055	000005	75.00	100.00
000075	000039	50.00	100.00
000300	000037	50.00	100.00
005015	010013	45.00	55.00
005016	009016	10.00	15.00
005016	009028	10.00	15.00
005016	003582	10.00	25.00
005018	000034	10.00	20.00
005018	003211	10.00	20.00
005018	000009	20.00	30.00
005019	009002	10.00	30.00
005019	000003	15.00	30.00
005019	000089	55.00	60.00
005020	009036	5.00	10.00
005020	009019	5.00	10.00
005021	000059	15.00	28.00
005021	009019	15.00	18.00
005022	009016	15.00	16.00
005023	000090	15.00	26.00
005024	000087	45.00	56.00
005025	000061	30.00	55.00
005025	000087	50.00	55.00
005026	003004	10.00	15.00
005026	000059	10.00	15.00
005027	003585	20.00	25.00
005028	000029	20.00	25.00
005028	000106	20.00	25.00
005029	000040	10.00	30.00
005030	000085	50.00	60.00
005030	000041	15.00	30.00
005031	000062	15.00	30.00
005031	000026	25.00	30.00
005032	000042	25.00	40.00
005033	003582	90.00	95.00
005034	000031	90.00	95.00

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 95
PAGE#: 1

CHEMICAL COMPONENTS OF A CHEMICAL MIXTURE

CHEM. ID # OF MIXTURE LOW	CHEM. ID # OF COMPONENT	PCT IN MIXTURE LOW	PCT IN MIXTURE HIGH	TENDS TO L: LESS THAN OR G: GREATER THAN, THE
000003	000003	100.0000	0.0000	
000004	000004	100.0000	0.0000	
000005	000005	100.0000	0.0000	
000006	000006	100.0000	0.0000	
000007	000007	100.0000	0.0000	
000008	000008	100.0000	0.0000	
000009	000009	100.0000	0.0000	
000010	000010	100.0000	0.0000	
000011	000011	100.0000	0.0000	
000012	000012	100.0000	0.0000	
000013	000013	100.0000	0.0000	
000014	000014	100.0000	0.0000	
000015	000015	100.0000	0.0000	
000016	000016	100.0000	0.0000	
000017	000017	100.0000	0.0000	
000018	000018	100.0000	0.0000	
000019	000019	100.0000	0.0000	
000020	000020	100.0000	0.0000	
000021	000021	100.0000	0.0000	
000022	000022	100.0000	0.0000	
000023	000023	100.0000	0.0000	
000024	000024	100.0000	0.0000	
000026	000026	100.0000	0.0000	
000027	000027	100.0000	0.0000	
000028	000028	100.0000	0.0000	
000029	000029	100.0000	0.0000	
000030	000030	100.0000	0.0000	
000031	000031	100.0000	0.0000	
000033	000033	100.0000	0.0000	
000034	000034	100.0000	0.0000	
000035	000035	100.0000	0.0000	
000036	000036	100.0000	0.0000	
000037	000037	100.0000	0.0000	
000038	000038	100.0000	0.0000	
000039	000039	100.0000	0.0000	
000040	000040	100.0000	0.0000	
000041	000041	100.0000	0.0000	
000042	000042	100.0000	0.0000	
000043	000043	100.0000	0.0000	
000044	000044	100.0000	0.0000	
000045	000045	100.0000	0.0000	
000046	000046	100.0000	0.0000	
000047	000047	100.0000	0.0000	
000048	000048	100.0000	0.0000	
000049	000049	100.0000	0.0000	
000050	000050	100.0000	0.0000	
000051	000051	100.0000	0.0000	

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 96
PAGE#: 1

HAZARDOUS PRODUCTS ALLOWED IN A PROCESS

PROCESS ID	HP ID
0001	000014
0001	000100
0003	000014
0003	000100

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/17/92
REPORT#: 97
PAGE#: 1

SECTION 302 CHEMICALS RAW DATA

CHEMICAL ID#	TPQ LIO/GAS/FINE PART	TPQ GENERATED SOLIDS
003581	100	200
003582	200	500
009002	200	500
009005	566	700
009008	123	455
009018	10	40

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/17/92
REPORT#: 98
PAGE#: 1

SECTION 304 CHEMICALS RAW DATA

CHEMICAL ID#	REPORTABLE QTY
000002	0
000003	100
000004	5000
000005	1000
000006	0
000007	0
000008	0
000009	5000
000010	5000
000011	0
000012	5000
000013	10
000014	5000
000015	0
000016	0
000017	5000
000018	5000
000019	0
000020	0
000021	0
000022	0
000023	1
000024	0
000025	0
000026	0
000027	0
000028	0
000029	0
000030	0
000031	0
000033	0
000034	1
000035	5000
000036	5000
000037	100
000038	1
000039	0
000040	5000
000041	0
000042	0
000043	0
000044	1
000045	0
000046	1
000047	0
000048	0
000049	100
000050	1
000051	0
000052	1000

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/17/92
REPORT#: 99
PAGE#: 1

SECTION 313 TOXIC CHEMICALS RAW DATA

313 TOXIC CHEMICAL ID#

003581
003582
003583
009001
009002
009003
009013

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/17/92
REPORT#: 100
PAGE#: 1

OSHA HAZARDOUS CHEMICAL RAW DATA

OSHA HAZARDOUS CHEMICAL ID#

003582
003586
009013
009024
009037

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 101
PAGE#: 1

CA AB2588 A-I CHEMICALS RAW DATA

CHEMICAL ID#	CARCINOGENIC
--------------	--------------

000005	Y
000008	Y
000034	Y
000035	Y
000037	Y
000038	Y
000052	Y
000082	Y
000087	Y
000100	Y
000174	Y
000188	Y
000189	Y
000227	Y
000230	Y
000235	Y
000240	Y
000241	Y
000242	Y
000251	Y
000257	Y
000266	Y
000281	Y
000296	Y
000325	Y
000381	Y
000424	Y
000429	Y
000449	Y
000456	Y
000467	Y
000469	Y
000489	Y
000499	Y
000504	Y
000524	Y
000525	Y
000591	Y
000600	Y
000612	Y
000678	Y
000682	Y
000690	Y
000699	Y
000727	Y
000737	Y
000821	Y
000824	Y
000835	Y
000837	Y
000853	Y

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 102
PAGE#: 1

CA AB2588 A-II CHEMICALS RAW DATA

CHEMICAL ID#	CARCINOGENIC
--------------	--------------

000023	Y
000041	Y
000083	Y
000088	Y
000154	Y
000155	Y
000171	Y
000200	Y
000201	Y
000238	Y
000246	Y
000277	Y
000278	Y
000283	Y
000329	Y
000377	Y
000447	Y
000460	Y
000503	Y
000508	Y
000559	Y
000560	Y
000628	Y
000654	Y
000661	Y
000680	Y
000689	Y
000691	Y
000692	Y
000693	Y
000694	Y
000695	Y
000717	Y
000735	Y
000764	Y
000777	Y
000793	Y
000797	Y
000803	Y
000816	Y
000827	Y
000847	Y
000854	Y
000885	Y
000894	Y
000904	Y
000960	Y
000962	Y
000967	Y

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 103
PAGE#: 1

CONTRACT MASTER LIST

CONTRACT NUMBER	DESCRIPTION
-----------------	-------------

0001	AOE OILER
0002	RESEARCH VESSEL
0003	LEA 710-712
0009	HEAVY LIFT
0012	LAUNCH PROTOTYPE
0013	LAUNCH 13
0222	CARRIER
1222	BULK CARRIER
1286	CAR/PASSENGER FERRY
7722	CARRIER 003-008
8888	ARCTIC VESSEL

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 104
PAGE#: 1

HAZARDOUS PRODUCT VIA MARINE COATING RULE RAW DATA

HULL NUMBER	DESCRIPTION
-------------	-------------

0001	LHA 1
0001	HEAVY LIFT
0002	LHA 2
0003	LHA 3
0004	LHA 4
0010	PASSENGER
0022	OILER HULL 22
0025	OILER HULL 25

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 105
PAGE#: 1

SWBS (SHIP WORK BREAKDOWN STRUCTURE) RAW DATA

SWBS ID#	DESCRIPTION
000	GENERAL GUIDANCE AND ADMINISTRATION
100	HULL STRUCTURAL, GENERAL
200	PROPULSION PLANT, GENERAL
300	ELECTRIC PLANT, GENERAL
400	COMMAND AND SURVEILLANCE, GENERAL
500	AUXILIARY SYSTEMS, GENERAL
600	OUTFIT AND FURNISHINGS, GENERAL
631	PAINTING
700	ARMAMENT, GENERAL
800	INTEGRATION/ENGINEERING
900	SHIP ASSEMBLY AND SUPPORT SERVICES

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 106
PAGE#: 1

EMPLOYEE RAW DATA

EMPLOYEE ID	EMPLOYEE'S NAME
1	BARBARA A. ADDISON
2	JAMES B. BELANGER
3	SAMANTHA C. CABINETREE
28	MATILDA C. CAMP
4	JEROME D. DANIELS
5	CRAIG E. EASTVIEW
6	MICHAEL F. FENNER
7	ROBERT G. GENTHE
8	CARL H. HOFFMANN
9	SHERRY T. ISACSEN
10	BELINDA J. JACKSON
11	STEPHEN K. KAISER
12	HOWARD L. LOEFFELHOLZ
13	GERALD M. MOON
14	SHAWN N. NOONAN
15	MERWIN O. OLSON
16	MARY P. PINK
30	JOHN Q. QUADE
17	SARA Q. QUINN
18	SAMUEL R. RALPH
19	CLARENCE S. SCHMIDT
27	GEORGE S. SCHMIDT
20	DOROTHY T. THOMAS
21	PATRICIA U. URBAN
22	BEA V. VALENTINE
29	SCOTT W. WARE
23	ALBERT W. WEBER
24	BERNADINE X. XANDER
25	WILLARD Y. YOUNG
26	JOSEPH Z. ZIMMERMAN

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 107
PAGE#: 1

DEPARTMENT RAW DATA

DEPT NUMBER	DEPT NAME
0001	INSIDE PIPING
0002	OUTSIDE PIPING
0003	OUTSIDE MACH
0004	INSIDE MACH
0005	PAINTING
0006	INSULATING
0007	CARPENTRY
0008	ELECTRICAL
0009	WELDING
0010	HULL
0011	TESTING
0012	BLASTING
0013	QUALITY ASSURE.
0014	INDUSTRIAL ENGR
0015	ENGINEERING
0016	MANAGEMENT INFO
0017	PLANNING
0018	LOFTING
0019	FABRICATION
0020	ACCOUNTING
0022	DIPPING
0023	QUALITY CIRCLES
0024	WAREHOUSE
0025	FIBERGLASS
0026	CLEANING
0027	PURCHASING
0028	MATERIAL CTRL
0029	RIGGING
0030	DISPOSAL

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/17/92
REPORT#: 108
PAGE#: 1

PRODUCT MANUFACTURER RAW DATA

MPR ID#	NAME AND ADDRESS	DAY PHONE EMERGENCY PHONE FAX#
00001	ADAMS BOTTLING COMPANY 555 THIRD STREET P.O. BOX 999 WAUSAU, WI 54401-9999	608-555-7101 608-555-7102
00002	BIRD MANUFACTURING 217 SECOND STREET P.O. BOX 999 PLATTEVILLE, WI 53818-9999	608-555-6101 608-555-6102
00003	CROWN EQUIPMENT, INC. 101 WATER STREET P.O. BOX 999 KANSAS CITY, KS 61101-9999	913-555-6101 913-555-6102
00004	DARTS LTD., INC. 219 EAST LASALLE STREET P.O. BOX 999 DUBUQUE, IA 52201-9999	319-555-6101 319-555-6102
00005	EUGENE'S TRANSPORTS, INC. 200 WEST INDUSTRIAL LANE P.O. BOX 999 FAIRPLAY, ND 66201-9999	819-555-3221 819-555-3333
00006	FAIRGATE BROS. MFG. 123 SOUTH PEARL STREET P.O. BOX 999 POTOSI, WI 54399-9999	608-555-3221 608-555-3333
00007	GREAT NORTHERN CORPORATION 213 EAST RAILROAD DRIVE P.O. BOX 999 CEDAR RAPIDS, IA 89399-9999	213-555-3221 213-555-3333
00008	HIGHLAND LUMBER CO., INC. 206 NORTH CLARK STREET P.O. BOX 999 MILWAUKEE, WI 53201-9999	414-555-3221 414-555-3333
00009	THE ICELAND COMPANY ROUTE 1, BOX 88 P.O. BOX 123 LOS ANGELES, CA 87600-9999	805-555-3221 805-555-3333
00010	JACKSON MANUFACTURING 8663 196TH STREET P.O. BOX 233	719-555-3221 719-555-3333

REPORT DATE: 01/14/92
REPORT#: 109
PAGE#: 1

CONTAINER HISTORY RAW DATA

CNT#	HPID#	PROC AREA	EMPL RECEIVED	RECEIVED	USED	VOC AMT
0000011	005020	0023 0021	15 01/10/91	0.0000	88.0000	0.5368
0000012	005015	0014 0022	5 01/10/91	0.0000	62.0000	0.0000
0000017	005018	0014 0004	14 01/10/91	0.0000	53.6750	21.0030
0000021	005025	0001 0008	15 01/10/91	0.0000	0.2595	0.0000
0000048	005023	0018 0002	6 01/10/91	0.0000	1.0120	0.0134
0000075	005031	0023 0007	3 01/10/91	0.0000	7.0000	0.0000
0000079	005024	0012 0001	9 01/10/91	0.0000	62.0000	0.1798
0000091	005024	0022 0013	01/10/91	92.2000	0.0000	0.0000
0000092	005034	0022 0013	01/10/91	295.6792	0.0000	0.0000
0000093	005030	0021 0019	01/10/91	3.2625	0.0000	0.0000
0000094	005020	0021 0019	01/10/91	0.0000	0.0000	0.0000
0000095	005027	0011 0002	01/10/91	9912.5198	0.0000	0.0000
0000096	005027	0011 0002	01/10/91	227.7000	0.0000	0.0000
0000097	005032	0011 0003	01/10/91	83.6550	0.0000	0.0000
0000098	005015	0011 0003	01/10/91	0.6468	0.0000	0.0000
0000099	005023	0022 0013	01/10/91	91.9600	0.0000	0.0000
0001000	005024	0014 0014	01/10/91	1414.1000	0.0000	0.0000

REPORT DATE: 01/14/92
REPORT#: 110
PAGE#: 1

HAZARDOUS PRODUCTS

[illegible]

000014	SILVERFLUX AC13	00016	0 0 0	A	0 0 0	0 1 1	Y	N	Y	M	W	1	8.00
000054	GREYBOND 113 TETRAETHOXYSILOXANE	00016	0 0 0	A	0 0 0	0 1 1						1	8.00
000055	DEBONDIC	00016	0 0 1	A	0 0	0 1 1	Y					M	8.00
000075	AN SILBOND	00016	0 0 0	A	0 0 0	0 1 1						W	8.00
000100	NEW SPECIAL BODYPART	00016	0 0 0	A	0 0 0	0 1 1						W	8.00
000150	SILVER REMOVER	00016	0 0 0	A	0 0 0	0 1 1						W	9.90
000200	PROPER CLEAN MEXAL	00016	0 0 0	A	0 0 0	0 1 1						W	8.00
000300	686 F121	00016	0 0 0	A	0 0 0	0 1 1						W	8.00
000402	WUNDER COUGH	00016	0 0 0	A	0 0 0	0 1 1						W	8.00
000410	REPAIRS BONDING ADHESIVE PRODUCTS	00016	0 0 0	A	0 0 0	1 2 1	Y	M	N	Y	M	W	76.20
000416	DEBONDING SILICONE BOND REMOVER	00021	1 3 0	B	1 1	2 3 0	7 1	Y	M	N	M	W	4.80
000517	2-PHENYLACETONE, 99%	00015	2 2 1	B	1 2	1 2 1	4 1	Y	M	N	M	W	8.80
000610	GREYBOND 113 TETRAETHOXYSILOXANE	00005	6 2 2	A	1 6	2 4 1	0 1	Y	Y	Y	T	W	2.30
000619	ACIA EDWARDS COLLAGE	00012	2 1 0	7 1 2	1 8 1	Y	M	Y	T	Y	Y	W	1.30
000620	DEBONDIC GLASS	00011	2 3 1	A	1 2	3 1 7 1	Y	M	Y	M	W	23.40	
000621	ANTI-FOULING BOTTOM PAINT	00016	1 3 1	A	1 1	3 1 3 1	7 1	Y	M	Y	M	W	19.00
000622	134 BONDOL, MAXIMUM CURE INDEX	00099	2 1 2	A	1 2	1 2 7 1	Y	M	Y	M	W	12.20	
000623	GRUBER VC-48	00019	2 2 2	A	1 2	2 2 7 1	Y	Y	Y	Y	Y	W	1.00
000625	NEW BONDOL LACQUER THINNER	00016	2 3 1	A	1 2	1 2 3 1	Y	Y	Y	Y	Y	W	1.00
000625	DEBONDIC	00001	0 0 0	A	0 0 0	1 0 1	1	Y	M	N	W	8.24	
000626	NOFLEX	00011	3 1 0	A	1 0	3 1 0 1	Y	M	Y	M	W	82.60	
000627	DEBONDING SPRAY	00012	2 1 0	D	1 2	1 0 2 1	Y	Y	Y	Y	W	3.40	
000628	KIL-FOR DYE	00001	2 1 0	D	1 2	1 0 2 1	Y	Y	Y	Y	W	1.10	
000629	CH 8341 CLEAR CHROM SILICONE	00016	2 1 3	A	1 1 2	1 3 2 1	Y	Y	Y	Y	W	0.80	
000630	FORMER BONDING EPOX SILICONE	00013	1 1 2	B	1 1	1 2 3 1	Y	M	N	M	W	2.00	
000631	DEBONDANT AND FEROXICUM SILICONE	00008	2 1 2	C	1 1	2 1 3 1	Y	M	N	M	W	4.00	
000632	DEBONDIC BLACK ALKAL BOND	00012	1 2 1	A	1 1	1 2 7 1	Y	M	N	W	1.00		
000633	DEBONDIC	00011	4 1 1	A	1 1	4 1 1 1	Y	Y	Y	Y	W	7.54	
000634	REPAIRS BONDING BOND 36 DYE	00012	1 1 1	A	1	1 1 7 1	Y	M	N	Y	W	26.21	

REPORT DATE: 01/14/92
REPORT#: 111
PAGE#: 1

SYNONYM RAW DATA

CHEMICAL ID #	CHEMICAL SYNONYM	CHEMICAL ID#
000001	ACACIA	000002
000002	ACACIA GUM	000002
000003	ACENAPHTHENE	000003
000004	ACENAPHTHYLENE	000004
000005	ACETALDEHYDE	000005
000006	ACETIC ALDEHYDE	000005
000007	ACETALDEHYDE AMMONIA	000006
000008	ACETALDEHYDE OXIME	000007
000009	ACETALDEHYDE, OXIME	000007
000010	ACETALDOXIME	000007
000011	ACETAMIDE	000008
000012	ACETIC ACID AMIDE	000008
000013	ACETIC ACID AMINE	000008
000014	ACETIMIDE ACID	000008
000015	ACETIC ACID	000009

REPORT DATE: 01/14/92
REPORT#: 112
PAGE#: 1

PROCESSES RAW DATA

PROCESS ID #	PROCESS DESCRIPTION
0001	PAINTING
0002	WELDING
0003	STRIPPING
0004	SANDING
0005	DIPPING
0006	LAMINATING
0007	CAULKING
0008	GRINDING
0009	PIPE FLUSHING
0010	CLEANING
0011	MACHINING
0012	TESTING
0013	BRAZING
0014	INSULATING
0015	INSTALLING
0016	LIGHTING
0017	FITTING
0018	MAINTENANCE
0019	CUTTING
0020	BURNING
0021	SETUP
0022	PLUMBING
0023	STORAGE

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 113
PAGE#: 1

AREAS RAW DATA

AREA ID #	SHORT DESCRIPTION	DESCRIPTION
0001	PNTSP	PAINT DEPARTMENT SMALL PARTS ROOM
0002	BLAST	BLAST BOOTH
0003	21TL	BUILDING 21 TOOL ROOM
0004	LAH	LAMINATING EAST SHOP FLOOR
0005	HAUTO	HAIN TOOL ROOM
0006	HACH	MACHINING TOOL ROOM
0007	QUAL	QUALITY ASSURANCE LAB
0008	DBTH	DIPPING BOOTH
0009	WHSE8	WAREHOUSE 8 TOOL ROOM
0010	WH816	WAREHOUSE 8 TOOL ROOM BIN 16
0011	WH817	WAREHOUSE 8 TOOL ROOM BIN 17
0012	WH818	WAREHOUSE 8 TOOL ROOM BIN 18
0013	WH822	WAREHOUSE 8 TOOL ROOM BIN 22
0014	PIPEH	PIPE SHOP MAIN TOOL ROOM
0015	PIPEO	PIPE SHOP WATER FRONT TOOL BOOTH
0016	INSUL	INSULATING SHOP CRIB
0017	TESTC	TESTING CRIB
0018	RIGBA	RIGGING BACK OFFICE
0019	GAS1	GASOLINE STATION NUMBER 1
0020	SUP12	ENGINEERING SUPPLY SHELF 12
0021	SUP17	ENGINEERING SUPPLY SHELF 17
0022	PNTT	PAINT TEST AREA
0023	CENH	CLEANING MAIN STORAGE
0024	HULL6	HULL 0006 AFT DECK BINS
0025	HULL7	HULL 0007 AFT DECK BINS
0026	HLL55	HULL 55 BELOW DECK GANG BOX
0027	DOCK1	GRAVING DRYDOCK
0028	DOCK2	FLOATING DRYDOCK
0029	PURCH	PURCHASING 2ND FLOOR STORAGE ROOM
0030	LOFT	LOFT AREA CLOSET
0031	HLSIN	HULL DEPARTMENT STEEL RACKS
0032	PNTWF	PAINT DEPARTMENT WATERFRONT FENCED AREA

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 114
PAGE#: 1

HAZARDOUS CHEMICALS RAW DATA

CHEM ID#: 000001 CHEM NAME: 000001 CHEM FORM:
CHEMICAL NAME: ACETONE
HCS (HAZARDOUS), FLAMMABILITY, REACTIVITY, PERSONAL PROTECTION:
NPA (HAZARDOUS), FUMES, REACTIVITY, SPECIAL NOTICES:
TIER II (HAZARDOUS), SECOND PNEUMONE, REACTIVITY, ACUTE HEALTH,
DELAYED HEALTH SPECIAL NOTICES:
CURRENT STATUS: SOLID: LIQUID: GAS:
DENSITY (G/G): 0.79 VOLUME: NON-CHLORINATED CHEMICAL:

CHEM ID#: 000002 CHEM NAME: 000002 CHEM FORM:
CHEMICAL NAME: ACETONE
HCS (HAZARDOUS), FLAMMABILITY, REACTIVITY, PERSONAL PROTECTION:
NPA (HAZARDOUS), FUMES, REACTIVITY, SPECIAL NOTICES:
TIER II (HAZARDOUS), SECOND PNEUMONE, REACTIVITY, ACUTE HEALTH,
DELAYED HEALTH SPECIAL NOTICES:
CURRENT STATUS: SOLID: LIQUID: GAS:
DENSITY (G/G): 0.79 VOLUME: NON-CHLORINATED CHEMICAL:

CHEM ID#: 000003 CHEM NAME: 000003 CHEM FORM:
CHEMICAL NAME: ACETONE
HCS (HAZARDOUS), FLAMMABILITY, REACTIVITY, PERSONAL PROTECTION:
NPA (HAZARDOUS), FUMES, REACTIVITY, SPECIAL NOTICES:
TIER II (HAZARDOUS), SECOND PNEUMONE, REACTIVITY, ACUTE HEALTH,
DELAYED HEALTH SPECIAL NOTICES:
CURRENT STATUS: SOLID: LIQUID: GAS:
DENSITY (G/G): 0.79 VOLUME: NON-CHLORINATED CHEMICAL:

CHEM ID#: 000004 CHEM NAME: 000004 CHEM FORM:
CHEMICAL NAME: ACETONE
HCS (HAZARDOUS), FLAMMABILITY, REACTIVITY, PERSONAL PROTECTION:
NPA (HAZARDOUS), FUMES, REACTIVITY, SPECIAL NOTICES:
TIER II (HAZARDOUS), SECOND PNEUMONE, REACTIVITY, ACUTE HEALTH,
DELAYED HEALTH SPECIAL NOTICES:
CURRENT STATUS: SOLID: LIQUID: GAS:
DENSITY (G/G): 0.79 VOLUME: NON-CHLORINATED CHEMICAL:

CHEM ID#: 000005 CHEM NAME: 000005 CHEM FORM:
CHEMICAL NAME: ACETONE
HCS (HAZARDOUS), FLAMMABILITY, REACTIVITY, PERSONAL PROTECTION:
NPA (HAZARDOUS), FUMES, REACTIVITY, SPECIAL NOTICES:
TIER II (HAZARDOUS), SECOND PNEUMONE, REACTIVITY, ACUTE HEALTH,
DELAYED HEALTH SPECIAL NOTICES:
CURRENT STATUS: SOLID: LIQUID: GAS:
DENSITY (G/G): 0.79 VOLUME: NON-CHLORINATED CHEMICAL:

CHEM ID#: 000006 CHEM NAME: 000006 CHEM FORM:
CHEMICAL NAME: ACETONE
HCS (HAZARDOUS), FLAMMABILITY, REACTIVITY, PERSONAL PROTECTION:
NPA (HAZARDOUS), FUMES, REACTIVITY, SPECIAL NOTICES:
TIER II (HAZARDOUS), SECOND PNEUMONE, REACTIVITY, ACUTE HEALTH,
DELAYED HEALTH SPECIAL NOTICES:
CURRENT STATUS: SOLID: LIQUID: GAS:
DENSITY (G/G): 0.79 VOLUME: NON-CHLORINATED CHEMICAL:

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/17/92
REPORT#: 115
PAGE#: 1

CONTAINER RAW DATA

CONTAINER ID	CONTAINER TYPE	CONTAINER SIZE	CONTAINER WEIGHT	CONTAINER VOLUME	CONTAINER CONTENTS	CONTAINER STATUS
000001	0001	100	0000	0000	0000	0000
000002	0001	100	0000	0000	0000	0000
000003	0001	100	0000	0000	0000	0000
000004	0001	100	0000	0000	0000	0000
000005	0001	100	0000	0000	0000	0000
000006	0001	100	0000	0000	0000	0000
000007	0001	100	0000	0000	0000	0000
000008	0001	100	0000	0000	0000	0000
000009	0001	100	0000	0000	0000	0000
000010	0001	100	0000	0000	0000	0000
000011	0001	100	0000	0000	0000	0000
000012	0001	100	0000	0000	0000	0000
000013	0001	100	0000	0000	0000	0000
000014	0001	100	0000	0000	0000	0000
000015	0001	100	0000	0000	0000	0000
000016	0001	100	0000	0000	0000	0000
000017	0001	100	0000	0000	0000	0000
000018	0001	100	0000	0000	0000	0000
000019	0001	100	0000	0000	0000	0000
000020	0001	100	0000	0000	0000	0000

TEST COMPANY NAME, INC.
HAZARDOUS MATERIAL TRACKING SYSTEM

REPORT DATE: 01/14/92
REPORT#: 116
PAGE#: 1

PLANT OR SITE RAW DATA

PLANT NUMBER	PLANT NAME
MAIN	MAIN YARD
WH88	WAREHOUSE 8
WSST	WEST SIDE STORAGE

Utility Menu

The Utility Menu contains calls to other menu systems and special data imports.

UTILITY MENU	
UTILITIES	
121. IMPORT CHEM MASTER DATA	131.
122. REPORT WRITER	132.
123. SYSTEM SECURITY	133.
124. TERMINAL SETUP	134.
125. UPLOAD TO PC YARD AUDIT DATA	135.
126. PURGE YARD AUDIT DATA	136.
127. IMPORT YARD AUDIT DATA	137.
128. PRINT BAR CODES	138.
129. PRINT NFPA NON-BAR CODE LABEL	139.
130. PRINT HMIS NON-BAR CODE LABEL	140.
888. SIGNON MENU 999. SIGNOFF	
**** PGDN FOR MAIN APPLICATIONS MENU ****	
F1 HELP	
SEL <input type="text"/>	

Utility option 121 will import the CHEM Master data. The data will be imported into temporary applications invisible to the user and then split out into the HMTS data.

Utility option 122 will call the TEAM-UP Report Writer menu. This option will only work if the user has a full version of TEAM-UP or a runtime version. Within the Report Writer menu the user will be allowed to create and change reports. The Report Writer is a powerful tool and can be very simple or very complex. A complete Report Writer manual for TEAM-UP has been included in the TEAM-UP reference appendix. It is highly recommended that the user review the appendix before using option 122.

Utility option 123 will call the TEAM-UP Security System. This option will allow the user to create his/her own security. The security system includes group and individual security. In addition, control options within HMTS can be changed by option 123. The Security system can be very complex. It is also recommended that the System Security reference section found in Appendix F be thoroughly reviewed prior to making changes in this area. The System Security option will not function in the demonstration version of HMTS.

Utility option 124 contains a full configuration menu for setting up printers and terminals. The user can enter very specific printer control codes if desired. This option should be used to tell TEAM-UP whether you have a color or monochrome screen.

Utility option 125 is the upload process for data that was collected in a yard audit via the Tricoder device. This option should be run immediately prior to running the comparison report, 66. This option will call the text editor within TEAM-UP. The first task that must be done within the text editor is to name the audit raw file. The name of this file must always be "DRIVE:TRICRDR.PRN". If the data being uploaded from the Tricoder is not

named accordingly, the data will not be imported to the Yard Audit application. A complete reference manual describing its use has been included in Appendix F.

Utility option 126 will clear the Yard Audit application data.

Utility option 127 imports the Yard Audit data into the Yard Audit application. Any records that do not import due to format errors will be collected in the error file TRICRDR.ERR. There error file may be viewed for comments describing the import error.


Utility option 128 calls a the bar code command module by Worthington Data Solutions Software. This program allows the user to print on an Epson-compatible printer bar codes that can be used to identify hazardous product containers. There are several options available for the user to choose from when generating the bar code label. A 2" x 3" label was used during the testing of this function. To print the bar code properly on this size of label, use single strike, a height of 5/10, Epson 24 pin compatible and a density of 2. Depending on the size label that you choose, you may have to alter the parameters listed above. Please see Figure 3.

Utility option 129 calls the non-bar code NFPA label. This option will print a label with manufacturers information, product information and safety concerns. The label has been designed for a label that is 2" x 3". Since labels come in all different sizes, HMTS allows the user to change the label size by accessing the Report Writer. Once in Report Writer the user may change the label to any size he wishes. Additional fields may also be added if the user so desires. Please see Figure 3.

Utility option 130 is the same as 129 except that it prints the HMIS ratings instead of the NFPA ratings.


HPID#: 000100
 TRADE NAME: MNV SPECIAL SOLVENT
 MFR'S ID#: 00014 PROSPEC PAINT INC.
 EMERGENCY PHONE#: 234-245-5333

 NFPA HEALTH: NORMAL MATERIAL
 FIRE HAZARD: WILL NOT BURN
 REACTIVITY: STABLE
 SPECIAL NOTICE: OXIDIZER

HMTS CONTAINER ID#

 000100


HPID#: 000150
 TRADE NAME: SILVER REMOVER
 MFR'S ID#: 00014 PROSPEC PAINT INC.
 EMERGENCY PHONE#: 234-245-5333

 NFPA HEALTH: NORMAL MATERIAL
 FIRE HAZARD: WILL NOT BURN
 REACTIVITY: STABLE
 SPECIAL NOTICE: OXIDIZER

HMTS CONTAINER ID#

 000101


HPID#: 000200
 TRADE NAME: PRIMER CLEAN METAL
 MFR'S ID#: 00014 PROSPEC PAINT INC.
 EMERGENCY PHONE#: 234-245-5333

 NFPA HEALTH: NORMAL MATERIAL
 FIRE HAZARD: WILL NOT BURN
 REACTIVITY: STABLE
 SPECIAL NOTICE: OXIDIZER

HMTS CONTAINER ID#

 000102

HPID#: 000300
 TRADE NAME: 4050 F121
 MFR'S ID#: 00014 PROSPEC PAINT INC.
 EMERGENCY PHONE#: 234-245-5333

 NFPA HEALTH: NORMAL MATERIAL
 FIRE HAZARD: WILL NOT BURN
 REACTIVITY: STABLE
 SPECIAL NOTICE: OXIDIZER

HMTS CONTAINER ID#

 000103

HPID#: 005012
 TRADE NAME: BARIUM COMPOUNDS
 MFR'S ID#: 00014 PROSPEC PAINT INC.
 EMERGENCY PHONE#: 234-245-5333

 NFPA HEALTH: NORMAL MATERIAL
 FIRE HAZARD: WILL NOT BURN
 REACTIVITY: STABLE
 SPECIAL NOTICE: OXIDIZER


HMTS CONTAINER ID#

 000104

Figure 3:
 Sample Non-Bar Code Labels and
 Sample HMTS Bar Code Container Labels

Appendix E: TEAM-UP Specifics

Database Files

The TEAM-UP database definition and ad hoc report listing follow.

Application Listings

The application listing can be a very valuable tool for those that wish to implement HMTS on systems other than a PC compatible environment. The application listing provides information about field size, type, location, etc.

210	- 71.	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
211	- 62. CONTAINER HI	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
212	- STORY	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
213	- 72.	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
214	- 63. HAZARDOUS PR	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
215	- ODUCT AMTS ON HA	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
216	- ND	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
217	- 73.	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
218	- 64. ROUTINE VOC	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
219	- EMISSIONS	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
220	- 74.	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
221	- 65. TIER II SARA	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
222	- REPORT	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
223	- 75.	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
224	- 66. YARD AUDIT C	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
225	- OMPARISON	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
226	- 76.	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
227	- 67. NON-CHEMMAST	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
228	- ER CHEMICALS	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
229	- 77.	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
230	- 68. EXPIRED CNTR	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
231	- S WAT SHELF LIFE	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
232	- 78.	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
233	- 69. INVALID CHAN	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
234	- GES/MOVES	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
235	- 79.	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
236	- 70.	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
237	- 80.	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
238	-	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
239	- 888. SIGNON MENU	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
240	- 999. S	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
241	- IGMOFF	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
242	-	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
243	-	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
244	- **** PGDN FOR MA	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
245	- STER REPORT MENU	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
246	- ****	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
247	-	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
248	- SEL	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
249	- 4	3	14	4	N	O	N	O	N	O	2	8	0	0	0	0	N	O
250	-	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
251	-	0	0	4	N	O	N	O	N	O	O	O	O	O	O	O	N	O
252	- FI HELP	0	0	4	N	O	N	O	N	O	1	0	0	0	0	0	N	O
253	- M A S T E R	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
254	- R E P O R T	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
255	- M E N U	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
256	-	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
257	-	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
258	-	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
259	- MASTER REPORTS	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
260	-	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
261	-	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
262	-	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
263	-	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
264	-	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
265	- 81. HAZARDOUS PR	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
266	- ODUCTIMARINE CTG	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
267	- 91. TEMPERATURE	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
268	- CONDITION	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
269	- 82. MARINE CTGS	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O

270	- VOC LMT CATEGORI	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
271	- ES	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
272	- 92. TIER II REPO	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
273	- RYING RANGES	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
274	- 83. STORAGE TYPE	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
275	- 93. CONTAINER UN	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
276	- IT	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
277	- 84. HMIS PERSONA	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
278	- L PROTECTION IND	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
279	- EX	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
280	- 94. CHEMICAL COM	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
281	- FOMENTS OF AN HP	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
282	- 85. HMIS HAZARD	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
283	- INDEX	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
284	- 95. CHEMICAL MIX	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
285	- TURES AND COMP C	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
286	- REMS	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
287	- 86. NEPA REACTIV	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
288	- ITY	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
289	- 96. HAZ PRODUCTS	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
290	- ALLOWED IN A PRO	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
291	- CESS	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
292	- 87. NEPA SPECIAL	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
293	- NOTICE	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
294	- 97. SECTION 302	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
295	- CHEMICALS	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
296	- 88. NEPA HEALTH	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
297	- HAZARDS	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
298	- 98. SECTION 304	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
299	- CHEMICALS	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
300	- 89. NEPA FIRE HA	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
301	- ZARDS	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
302	- 99. SECTION 313	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
303	- TOXIC CHEMICALS	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
304	- 90. PRESSURE CON	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
305	- DITION	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
306	- 100. OSHA HAZARD	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
307	- OUS CHEMICALS	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
308	-	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
309	- 888. SIGNON MENU	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
310	- 999. S	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
311	- IGMOFF	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
312	-	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
313	-	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
314	- **** PGDN FOR MA	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
315	- STER REPORT MENU	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
316	- (CONT.) ****	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
317	-	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
318	- SEL	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
319	- 5	3	17	5	N	O	N	O	N	O	2	8	0	0	0	0	N	O
320	-	0	0	5	N	O	N	O	N	O	O	O	O	O	O	O	N	O
321	-	0	0	5	N	O	N	O	N	O	O	O						

CURRENTLY DEFINED REPORTS -
NONE DEFINED

HAZMENU 1

HAZARDOUS MATERIAL TRACKING

MAIN APPLICATION MENU

MAIN APPLICATIONS

- | | |
|------------------------------------|---------------------------------|
| 1. HAZARDOUS PRODUCT | 11. HAZ PROD ALLOWED IN PROCESS |
| 2. HAZARDOUS CHEMICALS (CM) | 12. CONT STATUS CHG MASS ENTRY |
| 3. CONTAINER FOR HAZARDOUS PRODUCT | 13. YARD AUDIT |
| 4. PRODUCT MANUFACTURER | 14. |
| 5. CHEMICAL SYNONYM (CM) | 15. |
| 6. PROCESS WHERE PRODUCT IS USED | 16. |
| 7. AREA IN WHICH PRODUCT IS USED | 17. |
| 8. HIST OF PROD QTYs USED OR ADDED | 18. |
| 9. CHEM MIXTURES & COMP CHEMS (CM) | 19. |
| 10. CHEMICAL COMPONENTS OF AN HP | 20. RESEARCH PROJ DISCLAIMER! |

----- 888. SIGNON MENU ----- 999. SIGNOFF -----

**** PGDN FOR MASTER APPLICATION MENU ****

- SEL 1: ____ -

V010192

F1 HELP

HAZMENU 2

MASTER APPLICATION MENU

MASTER APPLICATIONS

- | | |
|--------------------------------------|--------------------------------------|
| 21. HAZARDOUS PRODUCT MARINE CTG | 31. TEMPERATURE CONDITION |
| 22. MARINE CTGS VOC LIMIT CATEGORIES | 32. TIER II REPORTING RANGES |
| 23. STORAGE TYPE | 33. CONTAINER UNIT |
| 24. HMIS PERSONAL PROTECTION INDEX | 34. COMPANY DATA |
| 25. HMIS HAZARD INDEX | 35. DEPARTMENTS |
| 26. NFPA REACTIVITY | 36. EMPLOYEES |
| 27. NFPA SPECIAL NOTICE | 37. SECTION 302 CHEMICALS (CM) |
| 28. NFPA HEALTH HAZARDS | 38. SECTION 304 CHEMICALS (CM) |
| 29. NFPA FIRE HAZARDS | 39. SECTION 313 TOXIC CHEMICALS (CM) |
| 30. PRESSURE CONDITION | 40. OSHA HAZARDOUS CHEMICALS (CM) |

----- 888. SIGNON MENU ----- 999. SIGNOFF -----

**** PGDN FOR MASTER APPLICATION MENU (CONT.) ****

- SEL 2: ____ -

F1 HELP

HAZMENU 3

MASTER APPLICATION MENU (CONT.)

MASTER APPLICATIONS

- | | |
|------------------------------|-----|
| 41. CA AB2588 A-I CHEMICALS | 51. |
| 42. CA AB2588 A-II CHEMICALS | 52. |
| 43. CONTRACT NUMBERS | 53. |
| 44. HULL NUMBERS | 54. |
| 45. SMBS NUMBERS | 55. |
| 46. UNIQUE COUNTS | 56. |
| 47. PLANTS OR SITES | 57. |
| 48. | 58. |
| 49. | 59. |
| 50. | 60. |

----- 888. SIGNON MENU ----- 999. SIGNOFF -----

**** PGDN FOR REPORT MENU ****

- SEL 3: ____ -

F1 HELP

HAZMENU 4
REPORT MENU

REPORTS

61. CONTAINERS BY DEPT AND AREA 71.
62. CONTAINER HISTORY 72.
63. HAZARDOUS PRODUCT AMTS ON HAND 73.
64. ROUTINE VOC EMISSIONS 74.
65. TIER II SARA REPORT 75.
66. YARD AUDIT COMPARISON 76.
67. NON-CHEMMASTER CHEMICALS 77.
68. EXPIRED CNTRS WRT SHELF LIFE 78.
69. INVALID CHANGES/MOVES 79.
70. 80.

----- 888. SIGNON MENU ----- 999. SIGNOFF -----

**** PGDN FOR MASTER REPORT MENU ****

- SEL 4: ____ -

F1 HELP

HAZMENU 5
MASTER REPORT MENU

MASTER REPORTS

81. HAZARDOUS PRODUCT/MARINE CTG 91. TEMPERATURE CONDITION
82. MARINE CTGS/VOC LMT CATEGORIES 92. TIER II REPORTING RANGES
83. STORAGE TYPE 93. CONTAINER UNIT
84. HMIS PERSONAL PROTECTION INDEX 94. CHEM COMPONENTS OF HP
85. HMIS HAZARD INDEX 95. CHEMICAL MIXTURES & COMP CHEMS
86. NEPA REACTIVITY 96. HAZ PRODUCTS ALLOWED IN PROCESS
87. NEPA SPECIAL NOTICE 97. SECTION 302 CHEMICALS
88. NEPA HEALTH HAZARDS 98. SECTION 304 CHEMICALS
89. NEPA FIRE HAZARDS 99. SECTION 313 TOXIC CHEMICALS
90. PRESSURE CONDITION 100. OSHA HAZARDOUS CHEMICALS

----- 888. SIGNON MENU ----- 999. SIGNOFF -----

**** PGDN FOR MASTER REPORT MENU (CONT.) ****

- SEL 5: ____ -

F1 HELP

HAZMENU 6
MASTER REPORT MENU (CONT.)

MASTER REPORTS

101. CA AB2588 A-I CHEMICALS 111. CHEMICAL SYNONYM
102. CA AB2588 A-II CHEMICALS 112. PRODUCTION PROCESSES
103. CONTRACT NUMBERS 113. AREA IN WHICH PRODUCT IS USED
104. HULL NUMBERS 114. HAZARDOUS CHEMICALS
105. SWBS NUMBERS 115. CONT FOR HAZARDOUS PRODUCT
106. EMPLOYEES 116. PLANT OR SITE ID
107. DEPARTMENTS 117.
108. PRODUCT MANUFACTURER 118.
109. HIST OF PROD QTYS USED OR ADDED 119.
110. HAZARDOUS PRODUCT 120.

----- 888. SIGNON MENU ----- 999. SIGNOFF -----

**** PGDN FOR UTILITY MENU ****

- SEL 6: ____ -

F1 HELP

HAZMENU 7
UTILITY MENU

UTILITIES

121. IMPORT CHEM MASTER DATA 131.
122. REPORT WRITER 132.
123. SYSTEM SECURITY 133.
124. TERMINAL SETUP 134.
125. UPLOAD TO PC YARD AUDIT DATA 135.
126. PURGE YARD AUDIT DATA 136.
127. IMPORT YARD AUDIT DATA 137.
128. PRINT BAR CODES 138.
129. PRINT NEPA NON-BAR CODE LABEL 139.
130. PRINT HMIS NON-BAR CODE LABEL 140.

----- 888. SIGNON MENU ----- 999. SIGNOFF -----

**** PGDN FOR MAIN APPLICATIONS MENU ****

- SEL 7: ____ -

F1 HELP

SUMMARY FOR: HP Application version #: 45 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 9
Record Security is DISABLED

APPLICATION OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Items to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR
Other valid commands : GLM

	L	E	N	C	G	I	P	A	E	T	A	T	T	M	Y	N	A	A	K	N	E
1 - HAZARDOUS PRODUC	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
2 - T	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
3 -	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
4 -	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
5 - HAZARDOUS PRODUC	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
6 - T ID	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
7 - NUMBER	6	5	1	Y	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
8 - (AUTO FILL)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
9 - IMAGE	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
10 - AVAILABLE	1	11	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	Y	3
11 - MANUFACTURER'S T	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
12 - RADE	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
13 - NAME	40	12	1	Y	O	Y	0	Y	0	0	0	0	0	0	0	0	0	0	0	N	40
14 - MANUFACTURER'S I	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
15 - D NUMBER	5	52	1	Y	O	Y	0	N	0	0	0	0	0	0	0	0	0	0	0	N	5
16 - 1	(30)	5	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	Y	0
17 - HMIS HEALTH	1	57	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
18 - NFPA_HEALTH HAZA	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
19 - RD	1	58	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
20 - HMIS FLAMMABILIT	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
21 - Y	1	59	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
22 - NFPA_FIRE_HAZARD	1	60	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
23 - HMIS	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
24 - REACTIVITY	1	61	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
25 - NFPA_REACTIVITY	1	62	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
26 - HMIS_PERSONAL PR	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
27 - OTECTION	1	63	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
28 - NFPA_SPECIAL NOT	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0

CURRENTLY DEFINED REPORTS -

REPORT FILE: HP.TR0
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

REPORT FILE: HP.TR1
REPORT NAME: NFPA LABEL
DESCRIPTION:
HAZARDOUS PRODUCT LABEL WITH NFPA RATINGS

ADDITIONAL APPLICATIONS ACCESSED: MFR, NFPAH, NFPAFH, NFPAE, NFPAEN

REPORT FILE: HP.TR2
REPORT NAME: HMIS LABEL
DESCRIPTION:
HAZARDOUS PRODUCT LABEL WITH HMIS RATINGS

ADDITIONAL APPLICATIONS ACCESSED: MFR, HMIS, HMISPP1

29 - ICE	1	64	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
30 - FIRE HAZARD	1	65	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
31 - (Y/N)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
32 - ACUTE HEALTH HAZ	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
33 - ARD	1	66	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
34 - (Y/N)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
35 - SUDDEN RELEASE O	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
36 - F	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
37 - PRESSURE	1	67	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
38 - (Y/N)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
39 - DELAYED HEALTH H	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
40 - AZARD	1	68	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
41 - (Y/N)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
42 - UNSTABLE REACTIV	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
43 - E	1	69	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
44 - (Y/N)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
45 - TRADE	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
46 - SECRET	1	70	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
47 - (Y/N)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
48 - SOLID/LIQUID/	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
49 - GAS	1	71	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
50 - (S/L/G)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
51 - SPEC	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
52 - GRAV	8	72	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
53 - DENSITY	9	80	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
54 - DENSITY UNITS	1	89	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
55 - G-G/L, L-LB/GAL	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
56 - DENREQ	9	90	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
57 - VOC AMT	9	99	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
58 - VOC	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
59 - UNITS	1	108	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
60 - G-G/L, L-LB/GAL	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
61 - VOCREQ	9	109	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
62 - FI-HELP	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
63 - ESC-EXIT	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
64 - CTRL L-ADD CHEM	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
65 - CHRNNTS, W-IMAGE	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
66 - MENU	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0

TOTALS: Stored: 113 Keys: 3 Chars on oneliner: 57
Non-stored: 30 Keysize: 26
Record size: 118

HP 1

HAZARDOUS PRODUCT

HAZARDOUS PRODUCT ID NUMBER: (AUTO FILL) IMAGE AVAIL: .
MANUFACTURER'S TRADE NAME: .
MANUFACTURER'S ID NUMBER: . 1: .

HMIS HEALTH: . NFPA HEALTH HAZARD: .
HMIS FLAMMABILITY: . NFPA FIRE HAZARD: .
HMIS REACTIVITY: . NFPA REACTIVITY: .
HMIS PERSONAL PROTECTION: . NFPA SPECIAL NOTICE: .

FIRE HAZARD: . (Y/N) ACUTE HEALTH HAZARD: . (Y/N)
SUDDEN RELEASE OF PRESSURE: . (Y/N) DELAYED HEALTH HAZARD: . (Y/N)
UNSTABLE REACTIVE: . (Y/N)

TRADE SECRET: . (Y/N) SOLID/LIQUID/GAS: . (S/L/G) SPEC GRAV: .
DENSITY: . DENSITY UNITS: . G-G/L, L-LB/GAL DENREQ: .
VOC_AMT: . VOC UNITS: . G-G/L, L-LB/GAL VOCREQ: .

FI-HELP ESC-EXIT

CTRL| L-ADD CHEM CHRNNTS, W-IMAGE MENU

SUMMARY FOR:IMAGHENU Application version #: 18 01/11/92

APPLICATION Master: 1 Find: 9 Enter: 9 Update: 9
SECURITY Delete: 9 Print: 9 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : N Display Page number : N
Display time : N Display command : N
Allow tab to home : N Data application : N
Lines to print after page: 0 Items to start cursor on: 54
Full field tab option : 2 Number of oneliners : -
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : N
Valid database commands : X

	L	P	I	K	K	D	I	S	M	A	A	F	T	P	N	D	S	O
	E	O	A	I	E	T	U	I	E	A	T	T	M	Y	N	A	A	K
	N	C	G	I	Y	P	P	I	C	N	E	U	T	P	T	T	T	P
1 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
2 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
3 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
4 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
5 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
6 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
7 - MSDS IMAGE SCANN	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
8 - ING MENU	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
9 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
10 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
11 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
12 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
13 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
14 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
15 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
16 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
17 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
18 - 1. SCAN A MSDS I	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
19 - INTO MEMORY	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
20 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
21 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
22 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
23 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
24 - 2. DISPLAY MSDS	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
25 - ON SCREEN	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
26 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
27 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
28 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O
29 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O

30 - 3. PRINT MSDS TO	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
31 - LASER PRINTER	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
32 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
33 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
34 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
35 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
36 - 4. PRINT MSDS TO	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
37 - EPSON PRINTER	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
38 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
39 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
40 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
41 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
42 - 5. OPTIONS MENU	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
43 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
44 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
45 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
46 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
47 - 6. EXIT	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
48 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
49 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
50 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
51 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
52 - F1 HELP	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	1	O	N
53 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
54 - SEL	1	5	1	Y	O	N	O	Y	O	O	O	2	O	O	O	O	O	N	1
55 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
56 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
57 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
58 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	O	N	O
59 - LHA	0	0	2	N	O	N	9	N	O	O	O	O	O	O	O	O	O	N	O
60 - EXTRACT	45	6	2	N	O	N	9	N	O	O	O	O	O	O	O	O	O	N	O
61 - PCX	0	0	2	N	O	N	9	N	O	O	O	O	O	O	O	O	O	N	O
62 - LASER	55	5	1	2	N	O	N	9	N	O	O	O	O	O	O	O	O	N	O
63 - FILE	45	1	0	6	2	N	O	N	9	N	O	O	O	O	O	O	O	N	O
64 - PCX	0	0	2	N	O	N	9	N	O	O	O	O	O	O	O	O	O	N	O
65 - PRINT	55	1	5	1	2	N	O	N	9	N	O	O	O	O	O	O	O	N	O
66 - PCX	0	0	2	N	O	N	9	N	O	O	O	O	O	O	O	O	O	N	O
67 - DISPLAY	55	2	0	6	2	N	O	N	9	N	O	O	O	O	O	O	O	N	O
68 - PCX FILE	12	2	6	1	2	N	O	N	9	N	O	O	O	O	O	O	O	N	O
69 - LHA	0	0	2	N	O	N	9	N	O	O	O	O	O	O	O	O	O	N	O
70 - PACK	45	2	7	3	2	N	O	N	9	N	O	O	O	O	O	O	O	N	O

TOTALS: Stored: 313 Keys: 1 Chars on oneliner: 1
Non-stored: 0 Keysize:26
Record size: 318

CURRENTLY DEFINED REPORTS -
NONE DEFINED

IMAGHENU 1

MSDS IMAGE SCANNING MENU
1. SCAN A MSDS INTO MEMORY
2. DISPLAY MSDS ON SCREEN
3. PRINT MSDS TO LASER PRINTER
4. PRINT MSDS TO EPSON PRINTER
5. OPTIONS MENU
6. EXIT
F1 HELP - SEL: _

IMAGHENU 2

LHA EXTRACT: _____
PCX LASER: _____
FILE: _____
PCX PRINT: _____
PCX DISPLAY: _____
PCX FILE: _____
LHA PACK: _____

SUMMARY FOR:SCANMENU Application version #: 14 01/11/92

APPLICATION Master: 1 Find: 9 Enter: 9 Update: 9
SECURITY Delete: 9 Print: 9 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION Message: ENTER-SAVE SETUP, ESC-CANCEL SETUP CHANGE
OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : N Display command : N
Allow tab to home : Y Data application : N
Lines to print after page: 0 Items to start cursor on: 1
Full field tab option : - Number of oneliners : 0
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands :
Other valid commands : S

	L	E	N	P	O	A	E	T	U	I	E	A	T	T	H	Y	N	A	A	K	N
	N	C	G	I	Y	P	P	I	C	N	E	U	T	P	T	T	T	P	E		
1 - SCANNING OPTIONS	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
2 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
3 - PRINTER	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
4 - MODE	1	5	1	Y	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	1	0
5 - SINGLE STRIKE	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
6 - 9 PIN - [1]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
7 - SINGLE STRIKE 24	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
8 - PIN - [4]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
9 - DOUBLE STRIKE	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
10 - 9 PIN - [2]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
11 - DOUBLE STRIKE 24	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
12 - PIN - [5]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
13 - QUAD	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
14 - STRIKE	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
15 - 9 PIN - [3]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
16 - QUAD	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
17 - STRIKE 24 PIN -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
18 - [6]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
19 - PROCESSING	1	6	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	10	0
20 - VERTICAL SUM - [0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
21 - V]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
22 - INVERSE SUM - [I	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
23 -]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
24 - PORT	1	7	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	4	0
25 - PARALLEL [0/1]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
26 - FUNCTION	1	8	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	8	0
27 - SCREEN - [D]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
28 - PRINTER - [P]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0

29 - HORIZONTAL PROC	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
30 - SSING	1	9	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	5	0
31 - SUMMING - [S]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
32 - AVERAGING - [A]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
33 - VIDEO MODE	1	10	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	10	0
34 - VGA - [1]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
35 - EGA - [2]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
36 - CGA - [3]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
37 - HERC - [4]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
38 - AUTO - [5]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
39 - DISPLAY	1	11	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	10	0
40 - FULL DOC - [1]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
41 - FULL WIDTH - [2]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
42 - FULL PAN - [3]	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
43 - F1-HELP	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
44 - ESC-EXIT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0

TOTALS: Stored: 7 Keys: 1 Chars on oneliner: 54
Non-stored: 0 Keysize:26
Record size: 12

CURRENTLY DEFINED REPORTS -
NONE DEFINED

SCANMENU 1

SCANNING OPTIONS

PRINTER MODE: .
SINGLE STRIKE 9 PIN - [1] SINGLE STRIKE 24 PIN - [4]
DOUBLE STRIKE 9 PIN - [2] DOUBLE STRIKE 24 PIN - [5]
QUAD STRIKE 9 PIN - [3] QUAD STRIKE 24 PIN - [6]

PROCESSING: . VERTICAL SUM - [V] INVERSE SUM - [I]

PORT: . PARALLEL [0/1]

FUNCTION: . SCREEN - [D] PRINTER - [P]

HORIZONTAL PROCESSING: . SUMMING - [S] AVERAGING - [A]

VIDEO_MODE: . VGA - [1] EGA - [2] CGA - [3] HERC - [4] AUTO - [5]

DISPLAY: . FULL DOC - [1] FULL WIDTH - [2] FULL PAN - [3]

F1-HELP ESC-EXIT

SUMMARY FOR: CHEM Application version #: 42 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 9
Record Security is DISABLED

APPLICATION OPTIONS Alternate ":" character : ":" Alternate "-" character : "-"
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Items to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR
Other valid commands : G

	L	LP	K	K	D	S	M	A	A	F	T	P	N	D	S	O
	E	OA	ETU	E	A	T	T	M	Y	N	A	A	X	N		E
	N	CG	I	Y	P	P	C	N	E	U	T	P	T	T	P	E
1 - HAZARDOUS CHEMIC	0	0	1	N	N	N	0	N	0	0	0	0	0	0	N	0
2 - ALS	0	0	1	N	N	N	0	N	0	0	0	0	0	0	N	0
3 -	0	0	1	N	N	N	0	N	0	0	0	0	0	0	N	0
4 -	0	0	1	N	N	N	0	N	0	0	0	0	0	0	N	0
5 - CHEMICAL ID NUMB	0	0	1	N	N	N	0	N	0	0	0	0	0	1	N	0
6 - ER	6	5	1	Y	O	N	0	N	0	0	0	4	0	1	N	6
7 - (AUTO FILL)	0	0	1	N	N	N	0	N	0	0	0	0	0	1	N	0
8 - CAS	0	0	1	N	N	N	0	N	0	0	0	0	0	1	N	0
9 - NUMBER	9	1	1	Y	O	Y	0	N	0	0	0	8	0	1	N	9
10 - CHEM	0	0	1	N	N	N	0	N	0	0	0	0	0	0	N	0
11 - FORMULA	60	20	1	N	N	N	0	N	0	0	0	0	0	0	N	0
12 - COMMON CHEMICAL	0	0	1	N	N	N	0	N	0	0	0	0	0	0	N	0
13 - NAME	80	80	1	N	N	N	0	Y	0	0	0	8	0	0	N	20
14 - HMIS HEALTH	1	160	1	N	N	N	0	N	0	0	0	8	0	0	N	0
15 - NFPA HEALTH HAZA	0	0	1	N	N	N	0	N	0	0	0	0	0	0	N	0
16 - PD	1	161	1	N	N	N	0	N	0	0	0	8	0	0	N	0
17 - HMIS FLAMMABILIT	0	0	1	N	N	N	0	N	0	0	0	0	0	0	N	0
18 - Y	1	162	1	N	N	N	0	N	0	0	0	8	0	0	N	0
19 - NFPA FIRE_HAZARD	1	163	1	N	N	N	0	N	0	0	0	8	0	0	N	0
20 - HMIS	0	0	1	N	N	N	0	N	0	0	0	0	0	0	N	0
21 - REACTIVITY	1	164	1	N	N	N	0	N	0	0	0	8	0	0	N	0
22 - NFPA REACTIVITY	1	165	1	N	N	N	0	N	0	0	0	8	0	0	N	0
23 - HMIS PERSONAL PR	0	0	1	N	N	N	0	N	0	0	0	0	0	0	N	0
24 - OTECTION	1	166	1	N	N	N	0	N	0	0	0	8	0	0	N	0
25 - NFPA SPECIAL NOT	0	0	1	N	N	N	0	N	0	0	0	0	0	0	N	0
26 - ICE	1	167	1	N	N	N	0	N	0	0	0	8	0	0	N	0
27 - FIRE_HAZARD	1	168	1	N	N	N	0	N	0	0	0	8	0	0	N	0
28 - (Y/N)	0	0	1	N	N	N	0	N	0	0	0	0	0	1	N	0

29 - ACUTE HEALTH HAZ	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
30 - ARD	1	169	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
31 - (Y/N)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	1	N	0		
32 - SUDDEN RELEASE O	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
33 - F	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
34 - PRESSURE	1	170	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
35 - (Y/N)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
36 - DELAYED HEALTH H	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
37 - AZARD	1	171	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
38 - (Y/N)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
39 - UNSTABLE REACTIV	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
40 - E	1	172	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
41 - (Y/N)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	1	N	0		
42 - PURE	1	173	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
43 - MIX	1	174	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
44 - (P/H)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	1	N	0		
45 - SOLID	1	175	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
46 - LIQUID	1	176	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
47 - GAS	1	177	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
48 - (S/L/G)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	1	N	0		
49 - DENSITY G/	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
50 - CC	8	178	1	N	N	N	0	N	0	0	0	0	0	2	4	N	0		
51 - (SPEC GRAV FOR L	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
52 - IQs & SOLs)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
53 - VOCS	1	186	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
54 - (Y/N)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0		
55 - FI-HELP	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	1	N	0	
56 - ESC-EXIT	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	N	0	
57 - NON	0	0	1	N	N	N	5	N	0	0	0	0	0	0	0	0	N	0	
58 - CHEMMASTER	1	187	1	N	N	N	5	N	0	0	0	0	0	0	0	0	Y	0	
59 - CHEMICAL COMPONE	0	0	2	N	N	N	0	N	0	0	0	0	0	0	0	0	N	0	
60 - NT (CONT.)	0	0	2	N	N	N	0	N	0	0	0	0	0	0	0	0	N	0	
61 -	0	0	2	N	N	N	0	N	0	0	0	0	0	0	0	0	N	0	
62 -	0	0	2	N	N	N	0	N	0	0	0	0	0	0	0	0	N	0	
63 - TEMPORARY DATA U	0	0	2	N	N	N	0	N	0	0	0	0	0	0	0	0	N	0	
64 - SED FOR REPORTS	0	0	2	N	N	N	0	N	0	0	0	0	0	0	0	0	N	0	
65 - (DO NOT USE!)	0	0	2	N	N	N	0	N	0	0	0	0	0	0	0	0	N	0	
66 - MAXLOM	8	188	2	N	N	N	0	N	0	0	0	0	0	2	1	0	9	0	
67 - MAXHIGH	8	196	2	N	N	N	0	N	0	0	0	0	0	2	1	0	9	0	
68 - MAXAVGLOW	8	204	2	N	N	N	0	N	0	0	0	0	0	2	1	0	9	0	
69 - MAXAVGHI	8	212	2	N	N	N	0	N	0	0	0	0	0	2	1	0	9	0	
70 - DAYS ON	0	0	2	N	N	N	0	N	0	0	0	0	0	0	0	0	N	0	
71 - SITE	8	220	2	N	N	N	0	N	0	0	0	0	0	2	1	0	9	0	
72 - FI-HELP	0	0	2	N	N	N	0	N	0	0	0	0	0	0	0	0	1	N	0
73 - ESC-EXIT	0	0	2	N	N	N	0	N	0	0	0	0	0	0	0	0	1	N	0

TOTALS: Stored: 223 Keys: 2 Chars on oneliner: 37
Non-stored: 0 Keysize:26
Record size: 228

CURRENTLY DEFINED REPORTS -

REPORT FILE: CHEM.TRO
REPORT NAME: LOCAL ADDED CHEM
DESCRIPTION:
LISTING OF LOCALLY ADDED CHEMICALS (NON-CHEMMASTER)

ADDITIONAL APPLICATIONS ACCESSED: CODATA

REPORT FILE: CHEM.TRI
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

CHEM 1

HAZARDOUS CHEMICALS

CHEMICAL ID NUMBER: (AUTO FILL)
CAS NUMBER:
CHEM FORMULA:
COMMON CHEMICAL NAME:

HMIS HEALTH: - NFPA HEALTH HAZARD: -
HMIS FLAMMABILITY: - NFPA FIRE HAZARD: -
HMIS REACTIVITY: - NFPA REACTIVITY: -
HMIS PERSONAL PROTECTION: - NFPA SPECIAL NOTICE: -
FIRE HAZARD: - (Y/N) ACUTE HEALTH HAZARD: - (Y/N)
SUDDEN RELEASE OF PRESSURE: - (Y/N) DELAYED HEALTH HAZARD: - (Y/N)
UNSTABLE REACTIVE: - (Y/N)
PURE: - MIX: - (P/H) SOLID: - LIQUID: - GAS: - (S/L/G)
DENSITY G/CC: - (SPEC GRAV FOR LIQS & SOLs) VOCS: - (Y/N)
FI-HELP ESC-EXIT NON CHEMMASTER: -

CHEMICAL COMPONENT (CONT.)

TEMPORARY DATA USED FOR REPORTS (DO NOT USE!)

MAXLOW: _____.
MAXHIGH: _____.
MAXAVGLW: _____.
MAXAVGHI: _____.
DAYS ON SITE: _____.

F1=HELP ESC=EXIT

SUMMARY FOR: CONTA Application version #: 54 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 7
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 9
Record Security is DISABLED

APPLICATION Message: CTRL: F-FIND, E-ENTER, D-DELETE
OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Items to start cursor on: 7
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEDPRU
Other valid commands : GJ

	L	E	O	A	I	E	T	U	I	E	A	T	T	H	Y	N	A	A	K	N	E
	N	C	G	I	Y	P	P	C	N	E	U	T	T	P	T	T	P	T	T	P	E
1 - QTY#EQ	9	5	1	N	O	N	N	5	N	0	0	0	2	1	0	0	N	0	0	0	0
2 - CONTAINER FOR HA	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
3 - ZARDOUS PRODUCT	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
4 -	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
5 -	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
6 - CONTAINER ID NUM	0	0	1	N	O	N	N	0	N	0	0	0	0	0	1	0	N	0	0	0	0
7 - BER	6	14	1	Y	O	N	N	0	Y	0	0	0	4	0	1	0	N	6	0	0	0
8 - HULL	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
9 - CONTAINERS	2	20	1	N	O	N	N	0	N	0	0	0	2	0	0	0	N	0	0	0	0
10 - CONTRACT	4	22	1	N	O	N	N	0	N	0	0	0	6	0	0	0	N	0	0	0	0
11 - HULL	4	26	1	N	O	N	N	0	N	0	0	0	6	0	0	0	N	0	0	0	0
12 - SWBS	3	30	1	N	O	N	N	0	N	0	0	0	6	0	0	0	N	0	0	0	0
13 - DEPT	4	33	1	N	O	N	N	0	N	0	0	0	8	0	0	0	N	0	0	0	0
14 - HAZARDOUS PRODUC	0	0	1	N	O	N	N	0	N	0	0	0	0	0	1	0	N	0	0	0	0
15 - T IN THIS CONTAI	0	0	1	N	O	N	N	0	N	0	0	0	0	0	1	0	N	0	0	0	0
16 - NER	6	37	1	Y	O	N	N	0	Y	0	0	0	4	0	1	0	N	6	0	0	0
17 - 1	(26)	5	1	N	O	N	N	0	N	0	0	0	8	0	8	0	Y	0	0	0	0
18 - DESCRIPTION OF U	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
19 - UNKNOWN RECEIVED	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
20 - PRODUCT	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
21 - 8	75	43	1	N	O	N	N	0	N	0	0	0	8	0	8	0	N	0	0	0	0
22 - QTY CURRENTLY IN	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
23 - CONTAINER	6	118	1	N	O	N	N	0	Y	0	0	0	2	1	0	0	N	9	0	0	0
24 - UNITS OF AMOUNT	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
25 - ENTERED	1	124	1	N	O	N	N	0	Y	0	0	0	8	0	0	0	N	0	0	0	0
26 - 2	(15)	31	1	N	O	N	N	0	N	0	0	0	8	0	8	0	Y	0	0	0	0
27 - STORAGE CONTAIN	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
28 - R	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0

29 - TYPE	1	125	1	N	O	N	N	0	Y	0	0	0	8	0	0	0	N	0	0	0	0
30 - 3	(35)	46	1	N	O	N	N	0	N	0	0	0	8	0	8	0	Y	0	0	0	0
31 - STORAGE PRESSURE	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
32 - TYPE	1	126	1	N	O	N	N	0	Y	0	0	0	8	0	0	0	N	0	0	0	0
33 - 4	(35)	81	1	N	O	N	N	0	N	0	0	0	8	0	8	0	Y	0	0	0	0
34 - STORAGE TEMPERAT	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
35 - URE_TYPE	1	127	1	N	O	N	N	0	Y	0	0	0	8	0	0	0	N	0	0	0	0
36 - 5	(39)	116	1	N	O	N	N	0	N	0	0	0	8	0	8	0	Y	0	0	0	0
37 - DATE PRODUCT REC	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
38 - EIVED OR PUT IN	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
39 - CONTAINER	8	128	1	N	O	N	N	0	Y	0	0	1	2	0	0	0	N	8	0	0	0
40 - DATE ENTERED	8	136	1	N	O	N	N	0	N	3	0	1	2	0	0	0	Y	0	0	0	0
41 - DATE CONTAINER O	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
42 - PENED	8	144	1	N	O	N	N	0	N	0	0	1	2	0	0	0	N	0	0	0	0
43 - LAST CONTAINER C	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
44 - HANGE	8	152	1	N	O	N	N	0	N	3	0	1	2	0	0	0	Y	0	0	0	0
45 - DATE CONTAINER R	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
46 - ETIRED	8	160	1	N	O	N	N	0	N	0	0	1	2	0	0	0	N	8	0	0	0
47 - DATE PRODUCT EXP	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
48 - IRES	8	168	1	N	O	N	N	0	N	0	0	1	2	0	0	0	N	8	0	0	0
49 - ASSIGNED PLANT O	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
50 - R	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
51 - SITE	4	176	1	N	O	N	N	0	Y	0	0	0	4	0	0	0	N	4	0	0	0
52 - ASSIGNED AREA FO	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
53 - R	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
54 - THIS_CONTAINER	4	180	1	N	O	N	N	0	Y	0	0	0	4	0	0	0	N	4	0	0	0
55 - 6	(31)	155	1	N	O	N	N	0	N	0	0	0	8	0	8	0	Y	0	0	0	0
56 - ASSIGNED PROCESS	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
57 - FOR THIS CONTAIN	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
58 - ER	4	184	1	N	O	N	N	0	Y	0	0	0	4	0	0	0	N	4	0	0	0
60 - UPDATED OR	(28)	186	1	N	O	N	N	0	N	0	0	0	8	0	8	0	Y	0	0	0	0
61 - ENTERED	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0	0
62 - BY	8	188	1	N	O	N	N	0	N	2	0	0	8	0	0	0	Y	0	0	0	0
63 - F1-HELP	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	1	0	N	0	0	0
64 - ESC-EXIT	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	1	0	N	0	0	0

TOTALS: Stored: 191 Keys: 2 Chars on oneliner: 65
Non-stored: 209 Keysize: 26
Record size: 196

CURRENTLY DEFINED REPORTS -

REPORT FILE: CONTA.TRO
REPORT NAME: CNT BY DEPT/AREA
DESCRIPTION:
CONTAINERS BY DEPT AND AREA

ADDITIONAL APPLICATIONS ACCESSED: CODATA, HP, AREA, DEPT

REPORT FILE: CONTA.TR1
REPORT NAME: PROD ON HAND
DESCRIPTION:
MSDS INVENTORY: PRODUCTS ON HAND

ADDITIONAL APPLICATIONS ACCESSED: CODATA, PQUA, HP

REPORT FILE: CONTA.TR2
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

REPORT FILE: CONTA.TR3
REPORT NAME: SHELF LIFE
DESCRIPTION:
LISTING OF CONTAINERS THAT HAVE EXPIRED OR ARE NEARING SHELF LIFE EXPIRATION

ADDITIONAL APPLICATIONS ACCESSED: CODATA, HP

CONTA 1

CONTAINER FOR HAZARDOUS PRODUCT

QTY#EQ: _____

CONTAINER ID NUMBER: ____ #MULT CONTAINERS: ____
CONTRACT: ____ HULL: ____ SWBS: ____ DEPT: ____
HAZARDOUS PRODUCT IN THIS CONTAINER: ____ 1: ____
DESCRIPTION OF UNKNOWN RECEIVED PRODUCT

8: ____
QTY CURRENTLY IN CONTAINER: ____
UNITS OF AMOUNT ENTERED: ____ 2: ____
STORAGE CONTAINER TYPE: ____ 3: ____
STORAGE PRESSURE TYPE: ____ 4: ____
STORAGE TEMPERATURE TYPE: ____ 5: ____

DATE PRODUCT RECEIVED/PUT IN CONT: ____/____/____ DATE ENTERED: ____/____/____
DATE CONTAINER OPENED: ____/____/____ LAST CONTAINER CHANGE: ____/____/____
DATE CONTAINER RETIRED: ____/____/____ DATE PRODUCT EXPIRES: ____/____/____

ASSIGNED PLANT OR SITE: ____
ASSIGNED AREA FOR THIS CONTAINER: ____ 6: ____
ASSIGNED PROCESS FOR THIS CONTAINER: ____ 7: ____
UPDATED OR ENTERED BY: ____
F1-HELP ESC-EXIT

SUMMARY FOR: MFR Application version #: 11 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	E	N	P	O	A	G	I	C	K	E	T	A	M	A	T	T	M	Y	N	A	A	K	N
1 - PRODUCT MANUFACT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0	
2 - URER	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0	
3 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0	
4 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0	
5 - MANUFACTURER ID	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	1	0	N	0
6 - NUMBER	5	5	1	Y	O	N	0	N	0	0	0	0	4	0	1	0	N	5						
7 - (AUTO FILL)	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	1	0	N	0				
8 - MANUFACTURER NAM	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	1	0	N	0					
9 - E	30	10	1	Y	O	N	0	Y	0	0	0	0	8	0	1	0	N	25						
10 - ADDRESS LINE	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	N	0					
11 - 1	25	40	1	N	O	N	0	Y	0	0	0	0	8	0	0	0	N	0						
12 - ADDRESS LINE	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	N	0					
13 - 2	25	65	1	N	O	N	0	N	0	0	0	0	8	0	0	0	N	0						
14 - CITY	25	90	1	N	O	N	0	Y	0	0	0	0	8	0	0	0	N	25						
15 - ST	2	115	1	N	O	N	0	Y	0	0	0	0	8	0	0	0	N	2						
16 - ZIP	10	117	1	N	O	N	0	N	0	0	0	7	2	0	0	0	N	0						
17 - DAY	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	N	0						
18 - PHONE	12	127	1	N	O	N	0	Y	0	0	5	2	0	0	0	0	N	0						
19 - EMERGENCY	0	0	1	N	O	N	0	N	0	0	0	0	0	0	1	0	N	0						
20 - PHONE#	12	139	1	Y	O	N	0	Y	0	0	5	2	0	1	0	N	12							
21 - FAX#	0	151	1	N	O	N	0	N	0	0	0	0	0	0	0	0	N	0						
22 - F1-HELP	0	0	1	N	O	N	0	N	0	0	0	0	0	0	1	0	N	0						
23 - ESC-EXIT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	1	0	N	0						

TOTALS: Stored: 158 Keys: 3 Chars on oneliner: 73
Non-stored: 0 Keysize: 26
Record size: 163

CURRENTLY DEFINED REPORTS -

REPORT FILE: MFR.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

MFR 1

PRODUCT MANUFACTURER

MANUFACTURER ID_NUMBER: _____. (AUTO FILL)
MANUFACTURER NAME: _____
ADDRESS LINE 1: _____
ADDRESS LINE 2: _____
CITY: _____. ST: _____. ZIP: _____.
DAY PHONE: _____. EMERGENCY PHONE#: _____.
FAX#: _____

F1-HELP ESC-EXIT

SUMMARY FOR: SYN Application version #: 9 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS
Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR
Other valid commands : G

	L	P	K	K	D	S	M	A	A	F	T	P	N	D	S	O	
*E	O	A	I	E	T	U	I	E	A	T	T	M	Y	N	A	K	N
N	C	G	I	Y	P	P	I	C	N	E	U	T	F	T	T	P	E
1 - CHEMICAL SYNONYM	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	N	0
2 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	N	0
3 - SYNONYM ID NUMBE	0	0	1	N	O	N	0	N	0	0	0	0	0	1	0	N	0
4 - R	6	5	1	Y	O	N	0	N	0	0	0	4	0	1	0	N	6
5 - (AUTO FILL)	0	0	1	N	O	N	0	N	0	0	0	0	0	1	0	N	0
6 - SYNONYM	80	11	1	Y	O	N	0	Y	0	0	0	8	0	1	0	N	59
7 - CHEMICAL ID NUMB	0	0	1	N	O	N	0	N	0	0	0	0	0	1	0	N	0
8 - ER	6	91	1	Y	O	Y	0	Y	0	0	0	4	0	1	0	N	6
9 - I	(73)	5	1	N	O	N	0	N	0	0	0	8	0	8	0	Y	0
10 - F1-HELP	0	0	1	N	O	N	0	N	0	0	0	0	0	1	0	N	0
11 - ESC-EXIT	0	0	1	N	O	N	0	N	0	0	0	0	0	1	0	N	0

TOTALS: Stored: 92 Keys: 3 Chars on oneliner: 73
Non-stored: 73 Keysize:26
Record size: 97

CURRENTLY DEFINED REPORTS -

REPORT FILE: SYN.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

SYN 1

CHEMICAL SYNONYM

SYNONYM ID NUMBER: _____. (AUTO FILL)

SYNONYM: _____

CHEMICAL ID NUMBER: _____

1:: _____

F1-HELP ESC-EXIT

SUMMARY FOR: PROC Application version #: 8 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	E	N	L	P	I	K	K	D	I	S	M	A	A	F	T	P	N	D	S	O
	N	E	C	G	/	Y	F	P	/	C	N	E	U	T	M	Y	N	A	A	K	N
1 - PROCESS WHERE A	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
2 - PRODUCT IS USED	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
3 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
4 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0	0
5 - PROCESS ID NUMBE	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	1	0	N	0	0
6 - R	4	5	1	Y	O	N	0	N	0	0	0	0	4	0	1	0	N	4			
7 - (AUTO FILL)	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	1	0	N	0		
8 - DESCRIPTION	40	9	1	N	O	N	0	Y	0	0	0	8	0	0	0	N	40				
9 - F1-HELP	0	0	1	N	O	N	0	N	0	0	0	0	0	0	1	0	N	0			
10 - ESC-EXIT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	1	0	N	0			
TOTALS:	Stored:	44	Keys:	1																	
	Non-stored:	0	Keysize:	26																	
	Record size:	49																			

TOTALS: Stored: 44 Keys: 1 Chars on oneliner: 45
Non-stored: 0 Keysize: 26
Record size: 49

CURRENTLY DEFINED REPORTS -

REPORT FILE: PROC.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

PROC 1

PROCESS WHERE A PRODUCT IS USED

PROCESS ID NUMBER: _____. (AUTO FILL)

DESCRIPTION: _____.

F1-HELP ESC-EXIT

SUMMARY FOR: AREA Application version #: 6 01/11/92

CURRENTLY DEFINED REPORTS -

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

REPORT FILE: AREA.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

APPLICATION OPTIONS
Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	E	N	P	O	A	I	K	K	D	S	M	A	A	F	T	P	N	D	S	O
	O	A	C	G	I	E	T	U	I	E	A	T	T	M	Y	N	A	A	K	N	
1 - AREA IN WHICH A	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0	
2 - PRODUCT IS USED	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0	
3 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0	
4 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0	
5 - AREA ID	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	1	0	N	0	
6 - NUMBER	4	5	1	Y	O	N	O	Y	0	0	0	4	0	1	0	N	4				
7 - SHORT DESCRIPTIO	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	N	0		
8 - N	5	9	1	N	O	N	O	Y	0	0	0	8	0	0	0	N	5				
9 - LONG	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	N	0				
10 - DESCRIPTION	40	14	1	N	O	N	O	Y	0	0	0	8	0	0	0	N	40				
11 - F1-HELP	0	0	1	N	O	N	O	N	O	0	0	0	0	1	0	N	0				
12 - ESC-EXIT	0	0	1	N	O	N	O	N	O	0	0	0	0	0	1	0	N	0			
TOTALS:	Stored:	49	Keys:	1	Chars on oneliner:	51															
	Non-stored:	0	Keysize:	26																	
	Record size:	54																			

AREA 1

AREA IN WHICH A PRODUCT IS USED

AREA ID NUMBER: _____.

SHORT DESCRIPTION: _____.

LONG DESCRIPTION: _____.

F1=HELP ESC=EXIT

SUMMARY FOR: PQUA Application version #: 44 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 9 Update: 9
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 9
Record Security is DISABLED

APPLICATION Message: CTRL: F-FIND, D-DELETE
OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : Y
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FDBR

	L	E	N	O	A	C	G	P	P	I	C	N	E	U	T	P	T	P	E
1 - HISTORY OF PRODU	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	N	0
2 - CT QTY'S RCVD OR	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	N	0
3 - USED	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	N	0
4 -	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	N	0
5 -	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	N	0
6 -	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	N	0
7 - CONTAINER ID NUM	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	1	N	0
8 - BER	6	5	1	Y	O	Y	0	Y	0	0	0	4	0	1	0	N	0	6	0
9 - HAZARDOUS PRODU	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	1	N	0
10 - T ID	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	1	N	0
11 - NUMBER	6	11	1	Y	O	Y	0	N	0	0	0	4	0	1	0	N	0	0	0
12 - 4	(34)	5	1	N	N	N	0	N	0	0	0	8	0	8	0	Y	0	0	0
13 - PLANT	4	17	1	N	N	N	0	N	0	0	0	4	0	0	0	N	4	0	0
14 - 5	(30)	39	1	N	N	N	0	N	0	0	0	8	0	8	0	Y	0	0	0
15 - PROCESS ID NUMBE	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	N	0	0
16 - R	4	21	1	N	N	N	0	N	0	0	0	4	0	0	0	N	4	0	0
17 - 2	(40)	69	1	N	N	N	0	N	0	0	0	8	0	8	0	Y	0	0	0
18 - AREA	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0
19 - ID NUMBER	4	25	1	N	N	N	0	N	0	0	0	4	0	0	0	N	4	0	0
20 - 1	(40)	109	1	N	N	N	0	N	0	0	0	8	0	8	0	Y	0	0	0
21 - EMPLOYEE INITIAT	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0
22 - ING	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0
23 - REQUEST	5	29	1	N	N	N	0	N	0	0	0	2	0	0	0	N	5	0	0
24 - 3	(15)	149	1	N	N	N	0	N	0	0	0	8	0	8	0	Y	0	0	0
25 - DATE PRODUCT USE	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	1	N	0	0
26 - D OR	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	1	N	0	0
27 - RECEIVED	8	34	1	Y	3	Y	0	Y	0	0	0	1	2	0	1	N	8	0	0
28 - QUANTITY RECEIVE	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0	0	0
29 - D	10	42	1	N	N	N	0	Y	0	0	0	2	1	0	0	N	10	0	0

CURRENTLY DEFINED REPORTS -

REPORT FILE: PQUA.TR0
REPORT NAME: CONT HIST
DESCRIPTION:
CONTAINER HISTORY FROM PERIOD TO PERIOD

ADDITIONAL APPLICATIONS ACCESSED: CODATA, HP, CONTA, EMPL

REPORT FILE: PQUA.TR1
REPORT NAME: ROUTINE VOC EMS
DESCRIPTION:
ROUTINE VOC EMISSIONS BY AREA AND DEPARTMENT]

ADDITIONAL APPLICATIONS ACCESSED: CODATA, CONTA, DEPT, AREA,
HP, HPMC, MCCAT

REPORT FILE: PQUA.TR2
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

REPORT FILE: PQUA.TR3
REPORT NAME: INVALID EMP DEPT
DESCRIPTION:
CONTAINERS THAT WERE DRAWN DOWN BY EMPLS THAT WERE FROM
INVALID DEPTS

ADDITIONAL APPLICATIONS ACCESSED: CODATA, EMPL, CONTA

30 - (POUNDS)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	1	0	N	0
31 - QUANTITY	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	N	0
32 - USED	10	52	1	N	N	N	0	Y	0	0	0	0	0	0	2	1	0	N	10
33 - (POUNDS)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	1	0	N	0
34 - VOC EMISSIONS AM	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	0	0	N	0
35 - COUNT	10	62	1	N	N	N	0	N	0	0	0	0	0	0	2	1	0	N	10
36 - (POUNDS)	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	1	0	N	0
37 - TIME ENTERED	8	72	1	N	N	N	9	N	0	0	0	3	2	0	0	0	0	N	0
38 - DATE ENTERED	8	80	1	N	N	N	9	N	0	0	0	1	2	0	0	0	0	N	0
39 - USERNAME	8	88	1	N	N	N	9	N	0	0	0	8	0	0	0	0	0	N	0
40 - F1-HELP	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	1	0	N	0
41 - ESC-EXIT	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	1	0	N	0

TOTALS: Stored: 91 Keys: 3 Chars on oneliner: 69
Non-stored: 159 Keysize: 26
Record size: 96

PQUA 1

HISTORY OF PRODUCT QTY'S RCVD OR USED

CONTAINER ID NUMBER: _____
HAZARDOUS PRODUCT ID NUMBER: _____.4::_____

PLANT: _____.5::_____
PROCESS ID NUMBER: _____.2::_____
AREA ID NUMBER: _____.1::_____
EMPLOYEE INITIATING REQUEST: _____.3::_____

DATE PRODUCT USED OR RECEIVED: ____/____/____.

QUANTITY RECEIVED: _____. (POUNDS)

QUANTITY USED: _____. (POUNDS)

VOC EMISSIONS AMOUNT: _____. (POUNDS)

TIME ENTERED: ____:____:____. DATE ENTERED: ____/____/____. USERNAME: _____

F1=HELP ESC=EXIT

SUMMARY FOR:CHEMCHEN Application version #: 17 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS
Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR
Other valid commands : G

	L	E	N	L	P	I	K	K	D	S	M	A	A	F	T	P	N	D	S	O
	E	O	A	I	E	T	U	E	A	T	T	M	Y	N	A	A	K	N		
	N	C	G	I	Y	P	P	I	C	N	E	U	T	P	T	T	T	P	E	
1 - CHEMICAL MIXTURE	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	N	0	
2 - S AND COMPONENT	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	N	0	
3 - CHEMICALS	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	N	0	
4 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	N	0	
5 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	N	0	
6 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	N	0	
7 - CHEMICAL ID NUMB	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	1	0	N	0	
8 - ER FOR	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	1	0	N	0	
9 - MIXTURE	6	5	1	Y	O	Y	0	Y	0	0	0	4	0	1	0	N	6			
10 - CAS#1	(8)	5	1	N	O	N	O	N	O	0	0	8	0	0	0	Y	0			
11 - NAME1	(80)	13	1	N	O	N	O	N	O	0	0	8	0	0	0	Y	0			
12 - CHEMICAL ID NUMB	0	0	1	N	O	N	O	N	O	0	0	0	0	0	1	0	N	0		
13 - ER FOR MIXTURE C	0	0	1	N	O	N	O	N	O	0	0	0	0	0	1	0	N	0		
14 - OMPOENT	6	11	1	Y	O	Y	0	Y	0	0	0	4	0	1	0	N	6			
15 - CAS#2	(8)	93	1	N	O	N	O	N	O	0	0	8	0	0	0	Y	0			
16 - NAME2	(80)	101	1	N	O	N	O	N	O	0	0	8	0	0	0	Y	0			
17 - LOW PERCENTAGE I	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	N	0		
18 - N THIS MIXTURE	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	N	0		
19 - 1	8	17	1	N	O	N	O	Y	0	0	0	2	4	8	0	N	3			
20 - (PERCENT)	0	0	1	N	O	N	O	N	O	0	0	0	0	0	1	0	N	0		
21 - HIGH PERCENTAGE	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	N	0		
22 - IN THIS MIXTURE	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	N	0		
23 - 2	8	25	1	N	O	N	O	Y	0	0	0	2	4	8	0	N	3			
24 - (PERCENT)	0	0	1	N	O	N	O	N	O	0	0	0	0	0	1	0	N	0		
25 - TENDS TOWARD <=	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	N	0		
26 - OR >= OF PERCENT	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	N	0		
27 - LOW	1	33	1	N	O	N	O	N	O	0	0	8	0	0	0	N	1			
28 - (L/G)	0	0	1	N	O	N	O	N	O	0	0	0	0	0	1	0	N	0		

29 - F1-HELP 0 0 1 N O N 0 N 0 0 0 0 0 1 0 N 0
30 - ESC-EXIT 0 0 1 N O N 0 N 0 0 0 0 0 1 0 N 0
TOTALS: Stored: 29 Keys: 2 Chars on oneliner: 23
Non-stored: 176 Keysize:26
Record size: 34

CURRENTLY DEFINED REPORTS -

REPORT FILE: CHEMCHEN.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

CHEMCHEN 1

CHEMICAL MIXTURES AND COMPONENT CHEMICALS

CHEMICAL ID NUMBER FOR MIXTURE: _____.

CAS#1: _____.

NAME1: _____.

CHEMICAL ID NUMBER FOR MIXTURE COMPONENT: _____.

CAS#2: _____.

NAME2: _____.

LOW PERCENTAGE IN THIS MIXTURE 1: _____ (PERCENT)

HIGH PERCENTAGE IN THIS MIXTURE 2: _____ (PERCENT)

TENDS TOWARD <= OR >= OF PERCENT LOW: _ (L/G)

F1-HELP ESC-EXIT

SUMMARY FOR: HPCHEM Application version #: 19 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS
Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR
Other valid commands : GY

	L	L P	K K D	S	M	A	A	F	T	P	N	D	S	O
	E	O A	E T U	E	A	T	T	M	Y	N	A	A	K	N
	N	C G	Y P P	C	N	E	U	T	P	T	T	T	P	E
1 - CHEMICAL COMPONE	0	0 1	N O N	0	N	0	0	0	0	0	0	0	N	0
2 - NTS OF AN HP	0	0 1	N O N	0	N	0	0	0	0	0	0	0	N	0
3 -	0	0 1	N O N	0	N	0	0	0	0	0	0	0	N	0
4 -	0	0 1	N O N	0	N	0	0	0	0	0	0	0	N	0
5 - HAZARDOUS PRODU	0	0 1	N O N	0	N	0	0	0	0	0	1	0	N	0
6 - T ID	0	0 1	N O N	0	N	0	0	0	0	0	1	0	N	0
7 - NUMBER	6	5 1	Y O Y	0	Y	0	0	4	0	1	0	N	6	
8 - 3	(40)	5 1	N O N	0	N	0	0	0	8	0	8	0	Y	0
9 - CHEMICAL ID NUMB	0	0 1	N O N	0	N	0	0	0	0	0	1	0	N	0
10 - ER	6	11 1	Y O Y	0	Y	0	0	4	0	1	0	N	6	
11 - 4	(74)	45 1	N O N	0	N	0	0	0	8	0	8	0	Y	0
12 - LOW PERCENTAGE I	0	0 1	N O N	0	N	0	0	0	0	0	0	0	N	0
13 - N THIS PRODUCT	0	0 1	N O N	0	N	0	0	0	0	0	0	0	N	0
14 - 1	6	17 1	N O N	0	Y	0	0	0	2	2	8	0	N	3
15 - %	0	0 1	N O N	0	N	0	0	0	0	0	1	0	N	0
16 - HIGH PERCENTAGE	0	0 1	N O N	0	N	0	0	0	0	0	0	0	N	0
17 - IN THIS PRODUCT	0	0 1	N O N	0	N	0	0	0	0	0	0	0	N	0
18 - 2	6	23 1	N O N	0	Y	0	0	0	2	2	8	0	N	3
19 - %	0	0 1	N O N	0	N	0	0	0	0	0	1	0	N	0
20 - HPCHEM	12	29 1	Y O N	9	N	0	0	0	8	0	1	0	N	0
21 - F1-HELP	0	0 1	N O N	0	N	0	0	0	0	0	1	0	N	0
22 - ESC-EXIT	0	0 1	N O N	0	N	0	0	0	0	0	1	0	N	0
23 - CTRL Y - MASS EN	0	0 1	N O N	0	N	0	0	0	0	0	1	0	N	0
24 - TRY	0	0 1	N O N	0	N	0	0	0	0	0	1	0	N	0

CURRENTLY DEFINED REPORTS -

REPORT FILE: HPCHEM.TRO
REPORT NAME: TIER II SUB TTLS
DESCRIPTION:
TIER II SUB TOTALS, AVG DAILY AMOUNT, MAX DAILY AMOUNT, NO. DAYS
ON SITE

ADDITIONAL APPLICATIONS ACCESSED: PQUA

REPORT FILE: HPCHEM.TRI
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

REPORT FILE: HPCHEM.TR2
REPORT NAME: TIER II REPORT
DESCRIPTION:
TIER II REPORT (MAKES USE OF TIER II SUBTTL REPORT)

ADDITIONAL APPLICATIONS ACCESSED: PQUA, CODATA, CHEM, CONTA,
AREA, TPQ302

TOTALS: Stored: 36 Keys: 3
Non-stored: 114 Keysize:26
Record size: 41

Chars on oneliner: 21

HPCHEM 1

CHEMICAL COMPONENTS OF AN HP

HAZARDOUS PRODUCT ID NUMBER: _____
3:: _____

CHEMICAL ID NUMBER: _____
4:: _____

LOW PERCENTAGE IN THIS PRODUCT 1: _____ %

HIGH PERCENTAGE IN THIS PRODUCT 2: _____ %

HPCHEM: _____

F1-HELP ESC-EXIT CTRL Y - MASS ENTRY

SUMMARY FOR: HPCCHASS Application version #: 37 01/11/92

APPLICATION Master: 1 Find: 9 Enter: 9 Update: 9
SECURITY Delete: 9 Print: 9 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION Message: CTRL: S-SEND TO HPCHEM APP, N=EXIT
OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : N Data application : N
Lines to print after page: 0 Items to start cursor on: 1
Full field tab option : - Number of onliners : -
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : N
Valid database commands :
Other valid commands : SN

	L	E	N	C	G	I	Y	P	P	I	C	N	E	U	T	P	T	T	P	E
1 - CHEMICAL COMPONE	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0
2 - NTS OF AN HP MAS	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0
3 - S ENTRY	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0
4 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0
5 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0
6 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0
7 - HPID#	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0
8 - CHEMID#	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0
9 - LOW#	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0
10 - HIGH#	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0
11 - AA	6	5	1	Y	O	N	O	Y	0	0	0	4	0	8	0	N	0	6		
12 - AB	(6)	5	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
13 - AC	(6)	11	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
14 - AD	(6)	17	1	N	O	N	O	N	0	0	0	2	2	8	0	N	0			
15 - BA	6	11	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
16 - BB	(6)	23	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
17 - BC	(6)	29	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
18 - BD	(6)	35	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
19 - CA	6	17	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
20 - CB	(6)	41	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
21 - CC	(6)	47	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
22 - CD	(6)	53	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
23 - DA	6	23	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
24 - DB	(6)	59	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
25 - DC	(6)	65	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
26 - DD	(6)	71	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
27 - EA	6	29	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
28 - EB	(6)	77	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			

29 - EC	(6)	83	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
30 - ED	(6)	89	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
31 - FA	6	35	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
32 - FB	(6)	95	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
33 - FC	(6)	101	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
34 - FD	(6)	107	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
35 - GA	6	41	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
36 - GB	(6)	113	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
37 - GC	(6)	119	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
38 - GD	(6)	125	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
39 - HA	6	47	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
40 - HB	(6)	131	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
41 - HC	(6)	137	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
42 - HD	(6)	143	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
43 - JA	6	53	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
44 - JB	(6)	149	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
45 - JC	(6)	155	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
46 - JD	(6)	161	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
47 - KA	6	59	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
48 - KB	(6)	167	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
49 - KC	(6)	173	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
50 - KD	(6)	179	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
51 - LA	6	65	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
52 - LB	(6)	185	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
53 - LC	(6)	191	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
54 - LD	(6)	197	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
55 - MA	6	71	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
56 - MB	(6)	203	1	N	O	N	O	Y	0	0	0	4	0	8	0	N	0			
57 - MC	(6)	209	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
58 - MD	(6)	215	1	N	O	N	O	Y	0	0	0	2	2	8	0	N	0			
59 - HPCHEMKEY	12	77	1	N	O	N	9	N	0	0	0	8	0	0	0	N	0			
60 - F1=HELP	0	0	1	N	O	N	O	N	0	0	0	0	0	0	1	0	N	0		

TOTALS: Stored: 84 Keys: 1 Chars on onliner: 6
Non-stored: 216 Keysize:26
Record size: 89

CURRENTLY DEFINED REPORTS -
NONE DEFINED

HPCCHASS 1

CHEMICAL COMPONENTS OF AN HP MASS ENTRY

HPID#	CHEMID#	LOW#	HIGH#
AA: _____	AB: _____	AC: _____	AD: _____
BA: _____	BB: _____	BC: _____	BD: _____
CA: _____	CB: _____	CC: _____	CD: _____
DA: _____	DB: _____	DC: _____	DD: _____
EA: _____	EB: _____	EC: _____	ED: _____
FA: _____	FB: _____	FC: _____	FD: _____
GA: _____	GB: _____	GC: _____	GD: _____
HA: _____	HB: _____	HC: _____	HD: _____
JA: _____	JB: _____	JC: _____	JD: _____
KA: _____	KB: _____	KC: _____	KD: _____
LA: _____	LB: _____	LC: _____	LD: _____
MA: _____	MB: _____	MC: _____	MD: _____

HPCHEMKEY: _____

F1=HELP

SUMMARY FOR: PROCHP Application version #: 10 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS
Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Items to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR
Other valid commands : G

	L	E	N	P	O	A	E	T	U	I	E	A	T	T	M	Y	N	A	A	K	N
	N	C	G	Y	P	P	C	N	E	U	T	P	T	T	P	E					
1 - HAZARDOUS PRODU	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O			
2 - TS ALLOWED IN A	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O			
3 - PROCESS	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O			
4 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O			
5 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O			
6 -	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O			
7 - PROCESS ID NUMBE	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O			
8 - R	4	5	1	Y	O	Y	O	Y	O	O	O	4	O	1	O	N	4				
9 - 1	(40)	5	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O			
10 - HAZARDOUS PRODU	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O			
11 - T ID	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O			
12 - NUMBER	6	9	1	Y	O	Y	O	Y	O	O	O	4	O	1	O	N	6				
13 - 2	(34)	45	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O			
14 - KEY	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O			
15 - PROCHP	10	15	1	Y	O	N	9	N	O	O	O	O	O	O	O	O	N	O			
16 - F1-HELP	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O			
17 - ESC-EXIT	0	0	1	N	O	N	O	N	O	O	O	O	O	O	O	O	N	O			
TOTALS:	Stored:	20	Keys:	3													Chars on oneliner:	11			
	Non-stored:	74	Keysize:	26																	
	Record size:	25																			

CURRENTLY DEFINED REPORTS -

REPORT FILE: PROCHP.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

PROCHP 1

HAZARDOUS PRODUCTS ALLOWED IN A PROCESS

PROCESS ID NUMBER: ____ 1::____

HAZARDOUS PRODUCT ID NUMBER: ____ 2::____

KEY PROCHP: ____

F1-HELP ESC-EXIT

SUMMARY FOR: MASS Application version #: 31 01/11/92

APPLICATION Master: 1 Find: 9 Enter: 9 Update: 9
SECURITY Delete: 9 Print: 9 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION Message: CTRL: S-SEND TO HIST APP, N-EXIT
OPTIONS Alternate ":" character : "-" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : N Data application : N
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : -
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : N
Valid database commands :
Other valid commands : SN

	L	LP	K	K	D	S	M	A	A	F	T	P	N	D	S	O
	E	OA	ET	UI	IE	A	T	T	M	Y	N	A	A	K	K	N
	N	CG	Y	PP	IC	N	E	U	T	P	T	T	T	P	E	
1 - CONTAINER STATUS	0	0	1	N	N	0	N	0	0	0	0	0	0	0	N	0
2 - CHANGE MASS ENTR	0	0	1	N	N	0	N	0	0	0	0	0	0	0	N	0
3 - Y	0	0	1	N	N	0	N	0	0	0	0	0	0	0	N	0
4 -	0	0	1	N	N	0	N	0	0	0	0	0	0	0	N	0
5 -	0	0	1	N	N	0	N	0	0	0	0	0	0	0	N	0
6 -	0	0	1	N	N	0	N	0	0	0	0	0	0	0	N	0
7 - CNT#	0	0	1	N	N	0	N	0	0	0	0	0	0	0	N	0
8 - AREA#	0	0	1	N	N	0	N	0	0	0	0	0	0	0	N	0
9 - PROC#	0	0	1	N	N	0	N	0	0	0	0	0	0	0	N	0
10 - DATE	0	0	1	N	N	0	N	0	0	0	0	0	0	0	N	0
11 - EMPL	0	0	1	N	N	0	N	0	0	0	0	0	0	0	N	0
12 - UNIT	0	0	1	N	N	0	N	0	0	0	0	0	0	0	N	0
13 - QTY_USED	0	0	1	N	N	0	N	0	0	0	0	0	0	0	N	0
14 - AA	6	5	1	N	N	0	Y	0	0	0	4	0	8	0	N	6
15 - AB	(4)	5	1	N	N	0	Y	0	0	0	4	0	8	0	N	0
16 - AC	(4)	9	1	N	N	0	Y	0	0	0	4	0	8	0	N	0
17 - AD	(8)	13	1	N	N	0	N	0	0	1	2	0	8	0	N	0
18 - AE	(5)	21	1	N	N	0	N	0	0	0	2	0	8	0	N	0
19 - AG	(1)	26	1	N	N	0	N	0	0	0	8	0	8	0	N	0
20 - AF	(6)	27	1	N	N	0	N	0	0	0	2	2	8	0	N	0
21 - BA	6	11	1	N	N	0	Y	0	0	0	4	0	8	0	N	0
22 - BB	(4)	33	1	N	N	0	Y	0	0	0	4	0	8	0	N	0
23 - BC	(4)	37	1	N	N	0	Y	0	0	0	4	0	8	0	N	0
24 - BD	(8)	41	1	N	N	0	N	0	0	1	2	0	8	0	N	0
25 - BE	(5)	49	1	N	N	0	N	0	0	0	2	0	8	0	N	0
26 - BG	(1)	54	1	N	N	0	N	0	0	0	8	0	8	0	N	0
27 - BF	(6)	55	1	N	N	0	N	0	0	0	2	2	8	0	N	0
28 - CA	6	17	1	N	N	0	Y	0	0	0	4	0	8	0	N	0

89 - LG	(1)	306	1	N	N	0	N	0	0	0	8	0	8	0	N	0
90 - LF	(6)	307	1	N	N	0	N	0	0	0	2	2	8	0	N	0
91 - MA	6	71	1	N	N	0	Y	0	0	0	4	0	8	0	N	0
92 - MB	(4)	313	1	N	N	0	Y	0	0	0	4	0	8	0	N	0
93 - MC	(4)	317	1	N	N	0	Y	0	0	0	4	0	8	0	N	0
94 - MD	(8)	321	1	N	N	0	N	0	0	1	2	0	8	0	N	0
95 - ME	(5)	329	1	N	N	0	N	0	0	0	2	0	8	0	N	0
96 - MG	(1)	334	1	N	N	0	N	0	0	0	8	0	8	0	N	0
97 - MF	(6)	335	1	N	N	0	N	0	0	0	2	2	8	0	N	0
98 - USERNAME	8	77	1	N	N	9	N	0	0	0	8	0	0	0	N	0
99 - PROCHKEY	10	85	1	N	N	9	N	0	0	0	8	0	0	0	N	0
100 - F1-HELP	0	0	1	N	N	0	N	0	0	0	0	0	1	0	N	0

TOTALS: Stored: 90 Keys: 1 Chars on oneliner: 6
Non-stored: 335 Keysize: 26
Record size: 95

CURRENTLY DEFINED REPORTS -
NONE DEFINED

29 - CB	(4)	61	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
30 - CC	(4)	65	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
31 - CD	(8)	69	1	N	N	0	N	0	0	0	1	2	0	8	0	N	0
32 - CE	(5)	77	1	N	N	0	N	0	0	0	2	0	8	0	N	0	
33 - CG	(1)	82	1	N	N	0	N	0	0	0	8	0	8	0	N	0	
34 - CF	(6)	83	1	N	N	0	N	0	0	0	2	2	8	0	N	0	
35 - DA	6	23	1	N	N	0	N	0	0	0	4	0	8	0	N	0	
36 - DB	(4)	89	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
37 - DC	(4)	93	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
38 - DD	(8)	97	1	N	N	0	N	0	0	0	1	2	0	8	0	N	0
39 - DE	(5)	105	1	N	N	0	N	0	0	0	2	0	8	0	N	0	
40 - DG	(1)	110	1	N	N	0	N	0	0	0	8	0	8	0	N	0	
41 - DF	(6)	111	1	N	N	0	N	0	0	0	2	2	8	0	N	0	
42 - EA	6	29	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
43 - EB	(4)	117	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
44 - EC	(4)	121	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
45 - ED	(8)	125	1	N	N	0	N	0	0	0	1	2	0	8	0	N	0
46 - EE	(5)	133	1	N	N	0	N	0	0	0	2	0	8	0	N	0	
47 - EG	(1)	138	1	N	N	0	N	0	0	0	8	0	8	0	N	0	
48 - EF	(6)	139	1	N	N	0	N	0	0	0	2	2	8	0	N	0	
49 - FA	6	35	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
50 - FB	(4)	145	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
51 - FC	(4)	149	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
52 - FD	(8)	153	1	N	N	0	N	0	0	0	1	2	0	8	0	N	0
53 - FE	(5)	161	1	N	N	0	N	0	0	0	2	0	8	0	N	0	
54 - FG	(1)	166	1	N	N	0	N	0	0	0	8	0	8	0	N	0	
55 - FF	(6)	167	1	N	N	0	N	0	0	0	2	2	8	0	N	0	
56 - GA	6	41	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
57 - GB	(4)	173	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
58 - GC	(4)	177	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
59 - GD	(8)	181	1	N	N	0	N	0	0	0	1	2	0	8	0	N	0
60 - GE	(5)	189	1	N	N	0	N	0	0	0	2	0	8	0	N	0	
61 - GG	(1)	194	1	N	N	0	N	0	0	0	8	0	8	0	N	0	
62 - GF	(6)	195	1	N	N	0	N	0	0	0	2	2	8	0	N	0	
63 - HA	6	47	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
64 - HB	(4)	201	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
65 - HC	(4)	205	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
66 - HD	(8)	209	1	N	N	0	N	0	0	0	1	2	0	8	0	N	0
67 - HE	(5)	217	1	N	N	0	N	0	0	0	2	0	8	0	N	0	
68 - HG	(1)	222	1	N	N	0	N	0	0	0	8	0	8	0	N	0	
69 - HF	(6)	223	1	N	N	0	N	0	0	0	2	2	8	0	N	0	
70 - JA	6	53	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
71 - JB	(4)	229	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
72 - JC	(4)	233	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
73 - JD	(8)	237	1	N	N	0	N	0	0	0	1	2	0	8	0	N	0
74 - JE	(5)	245	1	N	N	0	N	0	0	0	2	0	8	0	N	0	
75 - JG	(1)	250	1	N	N	0	N	0	0	0	8	0	8	0	N	0	
76 - JF	(6)	251	1	N	N	0	N	0	0	0	2	2	8	0	N	0	
77 - KA	6	59	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
78 - KB	(4)	257	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
79 - KC	(4)	261	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
80 - KD	(8)	265	1	N	N	0	N	0	0	0	1	2	0	8	0	N	0
81 - KE	(5)	273	1	N	N	0	N	0	0	0	2	0	8	0	N	0	
82 - KG	(1)	278	1	N	N	0	N	0	0	0	8	0	8	0	N	0	
83 - KF	(6)	279	1	N	N	0	N	0	0	0	2	2	8	0	N	0	
84 - LA	6	65	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
85 - LB	(4)	285	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
86 - LC	(4)	289	1	N	N	0	Y	0	0	0	4	0	8	0	N	0	
87 - LD	(8)	293	1	N	N	0	N	0	0	0	1	2	0	8	0	N	0
88 - LE	(5)	301	1	N	N	0	N	0	0	0	2	0	8	0	N	0	

MASS 1

CONTAINER STATUS CHANGE MASS ENTRY

CNT#	AREA#	PROC#	DATE	EMPL	UNIT	QTY_USED
AA: _____	AB: _____	AC: _____	AD: _____	AE: _____	AG: _____	AF: _____
BA: _____	BB: _____	BC: _____	BD: _____	BE: _____	BG: _____	BF: _____
CA: _____	CB: _____	CC: _____	CD: _____	CE: _____	CG: _____	CF: _____
DA: _____	DB: _____	DC: _____	DD: _____	DE: _____	DG: _____	DF: _____
EA: _____	EB: _____	EC: _____	ED: _____	EE: _____	EG: _____	EF: _____
FA: _____	FB: _____	FC: _____	FD: _____	FE: _____	FG: _____	FF: _____
GA: _____	GB: _____	GC: _____	GD: _____	GE: _____	GG: _____	GF: _____
HA: _____	HB: _____	HC: _____	HD: _____	HE: _____	HG: _____	HF: _____
JA: _____	JB: _____	JC: _____	JD: _____	JE: _____	JG: _____	JF: _____
KA: _____	KB: _____	KC: _____	KD: _____	KE: _____	KG: _____	KF: _____
LA: _____	LB: _____	LC: _____	LD: _____	LE: _____	LG: _____	LF: _____
MA: _____	MB: _____	MC: _____	MD: _____	ME: _____	MG: _____	

SUMMARY FOR: AUDIT Application version #: 6 01/11/92

APPLICATION Master: 5 Find: 5 Enter: 5 Update: 5
SECURITY Delete: 5 Print: 5 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION Message: CTRL: F-FIND
OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FR

	L	E	N	P	C	G	I	Y	P	P	I	C	N	E	U	T	P	T	P	T	P	E
1 - YARD AUDIT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	
2 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	
3 - CONTAINER#	6	5	1	Y	O	Y	0	Y	0	0	0	0	0	0	0	0	0	0	1	0	N	
4 - AUDIT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	
5 - DATE	8	1	1	N	O	N	0	N	0	0	0	0	1	2	0	0	0	0	0	N	8	
6 - AUDIT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	
7 - TIME	8	1	9	1	N	O	N	0	N	0	0	0	3	2	0	0	0	0	0	N	8	
8 - AREA	4	2	7	1	N	O	N	0	N	0	0	0	0	4	0	0	0	0	0	N	4	
9 - 1	(40)	5	1	N	O	N	0	N	0	0	0	0	8	0	8	0	0	0	0	N	0	
10 - QUANTITY	9	3	1	1	N	O	N	0	N	0	0	0	2	1	0	0	0	0	0	N	10	
11 - UNIT	1	4	0	1	N	O	N	0	N	0	0	0	8	0	0	0	0	0	0	N	4	
12 - 2	(15)	4	5	1	N	O	N	0	N	0	0	0	8	0	8	0	0	0	0	N	0	
13 - FI-HELP	0	0	1	N	O	N	0	N	0	0	0	0	0	0	1	0	0	0	0	N	0	
14 - ESC-EXIT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	1	0	0	0	N	0	

TOTALS: Stored: 36 Keys: 1 Chars on oneliner: 45
Non-stored: 55 Keysize: 26
Record size: 41

CURRENTLY DEFINED REPORTS -

REPORT FILE: AUDIT.TRI

REPORT NAME: YARD COMPARE

DESCRIPTION:

COMPARISON OF YARD DATA VS WHAT IS IN THE SYSTEM

ADDITIONAL APPLICATIONS ACCESSED: CODATA, CONTA, UNIT, HP, AREA

AUDIT 1

YARD AUDIT

CONTAINER#: _____

AUDIT DATE: __/__/__. AUDIT TIME: __:__:__.

AREA: ____, 1: _____.

QUANTITY: ____, UNIT: __, 2: _____.

F1-HELP ESC-EXIT

SUMMARY FOR: HPMC Application version #: 9 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR
Other valid commands : G

	L	E	T	N	L	P	O	A	E	T	S	M	A	A	F	T	P	N	D	S	O
	N	C	G	I	Y	P	P	C	N	E	U	T	P	T	T	T	T	T	T	P	E
1 - HAZARDOUS PRODUC	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
2 - T MARINE COATING	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
3 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
4 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0
5 - HAZARDOUS PRODUC	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	1	0	N	0
6 - T ID	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	1	0	N	0
7 - NUMBER	6	5	1	Y	O	Y	0	Y	0	0	0	4	0	1	0	N	6				
8 - 1	(40)	5	1	N	O	N	0	N	0	0	0	0	8	0	8	0	Y	0			
9 - MARINE COATING C	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	1	0	N	0		
10 - ATEGORY	4	11	1	Y	O	Y	0	Y	0	0	0	8	0	1	0	N	4				
11 - 2	(50)	45	1	N	O	N	0	N	0	0	0	8	0	8	0	Y	0				
12 - F1-HELP	0	0	1	N	O	N	0	N	0	0	0	0	0	0	1	0	N	0			
13 - ESC-EXIT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	1	0	N	0			

TOTALS: Stored: 10 Keys: 2 Chars on oneliner: 11
Non-stored: 90 Keysize: 26
Record size: 15

CURRENTLY DEFINED REPORTS -

REPORT FILE: HPMC.TRI
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

HPMC 1

HAZARDOUS PRODUCT MARINE COATING

HAZARDOUS PRODUCT ID NUMBER: _____.

1:: _____.

MARINE COATING CATEGORY: _____.

2:: _____.

F1-HELP ESC-EXIT

SUMMARY FOR: MOCAT Application version #: 7 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Items to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	LP	K	K	D	S	M	A	F	T	P	N	D	S	O
	E	OA	ETU	E	A	T	T	M	Y	N	A	A	K	N	E
	N	CG	Y	P	P	C	N	E	U	T	P	T	T	P	E
1 - MARINE COATINGS	0	0	1	N	N	N	0	N	0	0	0	0	0	N	0
2 - VOC LIMIT CATEGO	0	0	1	N	N	N	0	N	0	0	0	0	0	N	0
3 - RIES	0	0	1	N	N	N	0	N	0	0	0	0	0	N	0
4 -	0	0	1	N	N	N	0	N	0	0	0	0	0	N	0
5 -	0	0	1	N	N	N	0	N	0	0	0	0	0	N	0
6 -	0	0	1	N	N	N	0	N	0	0	0	0	0	N	0
7 - COATING	0	0	1	N	N	N	0	N	0	0	0	0	1	N	0
8 - CATEGORY	4	5	1	Y	N	N	0	Y	0	0	0	8	0	1	N
9 - G/LITER LIMITS A	0	0	1	N	N	N	0	N	0	0	0	0	0	N	0
10 - S APPLIED 9/1/	0	0	1	N	N	N	0	N	0	0	0	0	0	N	0
11 - 89	4	9	1	N	N	N	0	Y	0	0	0	2	0	0	N
12 - COATING DESCRIPT	0	0	1	N	N	N	0	N	0	0	0	0	0	N	0
13 - ION	50	13	1	N	N	N	0	Y	0	0	0	8	0	0	N
14 - FI-HELP	0	0	1	N	N	N	0	N	0	0	0	0	1	N	0
15 - ESC-EXIT	0	0	1	N	N	N	0	N	0	0	0	0	1	N	0
TOTALS:	Stored:	58	Keys:	1											
	Non-stored:	0	Keysize:	26											
	Record size:	63													

Chars on oneliner: 60

CURRENTLY DEFINED REPORTS -

REPORT FILE: MOCAT.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

MOCAT 1

MARINE COATINGS VOC LIMIT CATEGORIES

COATING CATEGORY: ____.

G/LITER LIMITS AS APPLIED 9/1/89: ____.

COATING DESCRIPTION: _____.

F1-HELP ESC-EXIT

SUMMARY FOR: STYP Application version #: 5 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS
Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	LP	K	KD	S	M	A	A	F	T	P	N	D	S	O
	E	O	A	E	T	U	E	A	T	M	Y	N	A	A	K
	N	C	G	I	Y	P	P	C	N	E	U	T	P	T	T
1 - STORAGE TYPE	0	0	1	N	N	0	N	0	0	0	0	0	0	N	0
2 - STORAGE TYPE COD	0	0	1	N	N	0	N	0	0	0	0	0	0	N	0
4 - E	1	5	1	Y	O	N	0	Y	0	0	0	8	0	1	0
5 - DESCRIPTION	35	6	1	N	N	0	Y	0	0	0	8	0	0	N	35
6 - F1-HELP	0	0	1	N	N	0	N	0	0	0	0	0	1	0	N
7 - ESC-EXIT	0	0	1	N	N	0	N	0	0	0	0	0	1	0	N

TOTALS: Stored: 36 Keys: 1 Chars on oneliner: 37
Non-stored: 0 Keysize: 26
Record size: 41

CURRENTLY DEFINED REPORTS -

REPORT FILE: STYP.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

STYP 1

STORAGE TYPE

STORAGE TYPE CODE: _.

DESCRIPTION: _____.

F1-HELP ESC-EXIT

SUMMARY FOR: HMISPP1 Application version #: 7 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delate: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION
OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Items to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	E	N	P	O	A	I	E	T	U	I	S	M	A	A	F	T	P	N	D	S	O
	N	C	G	Y	P	P	C	N	E	U	T	P	T	T	T	T	T	T	T	T	T	P
1 - HMIS PERSONAL PR	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0
2 - OTECTION INDEX	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0
3 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0
4 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0
5 - PERSONAL PROTECT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	1	O	N	0
6 - ION	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	1	O	N	0
7 - INDEX	1	5	1	Y	O	N	0	Y	0	0	0	8	0	1	0	N	1					
8 - REQUIRED PROTECT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0
9 - ION	80	6	1	N	O	N	0	Y	0	0	0	8	0	0	0	0	0	0	0	N	50	0
10 - F1-HELP	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	1	O	N	0
11 - ESC-EXIT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	1	O	N	0

TOTALS: Stored: 81 Keys: 1 Chars on oneliner: 52
Non-stored: 0 Keysize: 26
Record size: 86

CURRENTLY DEFINED REPORTS -

REPORT FILE: HMISPP1.TRO
REPORT NAME: PASTIR
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

HMISPP1 1

HMIS PERSONAL PROTECTION INDEX

PERSONAL PROTECTION INDEX: _.

REQUIRED PROTECTION: _____

F1-HELP ESC-EXIT

SUMMARY FOR: HMISI Application version #: 5 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	LP	KK	DD	SS	MM	AA	FF	TT	PP	NN	DD	SS	OO
1 - HMIS HAZARD INDE	0	0	1	N	N	N	0	0	0	0	0	0	N	0
2 - X	0	0	1	N	N	N	0	0	0	0	0	0	N	0
3 -	0	0	1	N	N	N	0	0	0	0	0	0	N	0
4 -	0	0	1	N	N	N	0	0	0	0	0	0	N	0
5 - HAZARD	0	0	1	N	N	N	0	0	0	0	0	0	N	0
6 - INDEX	0	0	1	N	N	N	0	0	0	0	0	1	N	0
7 - DESCRIPTION	20	6	1	N	N	N	0	Y	0	0	0	8	0	N
8 - F1-HELP	0	0	1	N	N	N	0	0	0	0	0	1	N	0
9 - ESC-EXIT	0	0	1	N	N	N	0	0	0	0	0	1	N	0

TOTALS: Stored: 21 Keys: 1 Chars on oneliner: 22
Non-stored: 0 Keysize: 26
Record size: 26

CURRENTLY DEFINED REPORTS -

REPORT FILE: HMISI.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

HMISI 1

HMIS HAZARD INDEX

HAZARD INDEX: _.

DESCRIPTION: _____.

F1-HELP ESC-EXIT

SUMMARY FOR: NFPARE Application version #: 5 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION
OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on error : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	L	P	K	K	D	S	M	A	A	F	T	P	N	D	S	O
	E	O	A	I	E	T	U	E	A	T	H	Y	N	A	A	K	N
	N	C	G	I	Y	P	P	I	C	N	E	U	T	P	T	T	P
1 - NFPA REACTIVITY	0	0	1	N	O	N	0	0	N	0	0	0	0	0	0	N	0
2 -	0	0	1	N	O	N	0	0	N	0	0	0	0	0	0	N	0
3 - REACTIVITY	0	0	1	N	O	N	0	0	N	0	0	0	0	0	1	N	0
4 - CODE	1	5	1	Y	O	N	0	Y	0	0	0	0	8	0	1	N	1
5 - DESCRIPTION	23	6	1	N	O	N	0	Y	0	0	0	0	8	0	0	N	23
6 - F1-HELP	0	0	1	N	O	N	0	N	0	0	0	0	0	0	1	N	0
7 - ESC-EXIT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	1	N	0
TOTALS:	Stored: 24	Keys: 1															Chars on oneliner: 25
	Non-stored: 0	Keysize: 26															
	Record size: 29																

CURRENTLY DEFINED REPORTS -

REPORT FILE: NFPARE.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: COOATA

NFPARE 1

NFPA REACTIVITY

REACTIVITY CODE: _.

DESCRIPTION: _____

F1-HELP ESC-EXIT

SUMMARY FOR: NFPPASN Application version #: 6 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION
OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	E	N	L	P	I	K	K	D	I	S	M	A	A	F	T	P	N	D	S	O
	E	O	A	I	E	T	U	I	E	A	T	T	M	Y	N	A	A	K	N		
	N	C	G	I	Y	P	P	I	C	N	E	U	T	P	T	T	T	P	E		
1 - NFPA SPECIAL NOT	0	0	1	N	O	N	N	O	N	O	0	0	0	0	0	0	0	0	N	0	
2 - ICE	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0	
3 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0	
4 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	N	0	
5 - SPECIAL NOTICE C	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	1	0	N	0	
6 - CODE	1	5	1	Y	O	N	O	Y	0	0	0	0	8	0	1	0	N	1			
7 - ABBREVIATED DESC	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	N	0		
8 - RIPTION	4	6	1	N	O	N	O	Y	0	0	0	8	0	0	0	0	N	4			
9 - DESCRIPTION	23	10	1	N	O	N	O	Y	0	0	0	8	0	0	0	0	N	23			
10 - FI-HELP	0	0	1	N	O	N	O	N	O	0	0	0	0	0	1	0	N	0			
11 - ESC-EXIT	0	0	1	N	O	N	O	N	O	0	0	0	0	0	1	0	N	0			

TOTALS: Stored: 28 Keys: 1 Chars on oneliner: 30
Non-stored: 0 Keysize: 26
Record size: 33

CURRENTLY DEFINED REPORTS -

REPORT FILE: NFPPASN.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

NFPPASN 1

NFPA SPECIAL NOTICE

SPECIAL NOTICE CODE: ____
ABBREVIATED DESCRIPTION: ____
DESCRIPTION: _____

F1-HELP ESC-EXIT

SUMMARY FOR: NFPAHH Application version #: 4 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	LP	KK	DD	SS	MM	AA	FF	TT	PP	NN	DD	SS	OO			
	E	OA	ET	UT	EA	AT	TM	YN	AA	KN							
	N	CG	Y	PP	C	N	E	U	T	P	T	T	P	E			
1 - NFPA HEALTH HAZA	0	0	1	N	O	N	O	N	0	0	0	0	0	N	0		
2 - RDS	0	0	1	N	O	N	O	N	0	0	0	0	0	N	0		
3 -	0	0	1	N	O	N	O	N	0	0	0	0	0	N	0		
4 -	0	0	1	N	O	N	O	N	0	0	0	0	0	N	0		
5 - HEALTH HAZARD CO	0	0	1	N	O	N	O	N	0	0	0	0	1	O	N	0	
6 - DE	1	5	1	Y	O	N	O	Y	0	0	0	8	0	1	O	N	1
7 - DESCRIPTION	23	6	1	N	O	N	O	Y	0	0	0	8	0	0	O	N	23
8 - FI-HELP	0	0	1	N	O	N	O	N	0	0	0	0	0	1	O	N	0
9 - ESC-EXIT	0	0	1	N	O	N	O	N	0	0	0	0	1	O	N	0	

TOTALS: Stored: 24 Keys: 1 Chars on oneliner: 25
Non-stored: 0 Keysize:26
Record size: 29

CURRENTLY DEFINED REPORTS -

REPORT FILE: NFPAHH.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

NFPAHH 1

NFPA HEALTH HAZARDS

HEALTH HAZARD CODE: _.

DESCRIPTION: _____.

FI-HELP ESC-EXIT

SUMMARY FOR: NFPAFH Application version #: 5 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Items to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	E	O	A	I	E	T	U	I	E	A	T	M	Y	N	A	A	K	N
	N	C	G	I	Y	P	P	I	C	N	E	U	T	P	T	T	T	P	E
1 - NFPA FIRE HAZARD	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	N	0
2 - S	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	N	0
3 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	N	0
4 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	N	0
5 - FIRE HAZARD	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	1	0	N	0
6 - CODE	1	5	1	Y	O	N	0	Y	0	0	0	8	0	1	0	N	1		
7 - DESCRIPTION	23	6	1	N	O	N	0	Y	0	0	0	8	0	0	0	N	23		
8 - F1-HELP	0	0	1	N	O	N	0	N	0	0	0	0	0	1	0	N	0		
9 - ESC-EXIT	0	0	1	N	O	N	0	N	0	0	0	0	0	1	0	N	0		
TOTALS:	Stored:	24	Keys:	1	Chars on oneliner:	25													
	Non-stored:	0	Keysize:	26															
	Record size:	29																	

CURRENTLY DEFINED REPORTS -

REPORT FILE: NFPAFH.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

NFPAFH 1

NFPA FIRE HAZARDS

FIRE HAZARD CODE: _.

DESCRIPTION: _____

F1-HELP ESC-EXIT

SUMMARY FOR: PCOND Application version #: 5 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS
Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Items to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	L	P	K	K	D	S	M	A	A	F	T	P	N	D	S	O
	E	O	A	E	T	U	I	E	A	T	T	M	Y	N	A	A	K
	N	C	G	Y	P	P	I	C	N	E	U	T	P	T	T	P	E
1 - PRESSURE CONDITI	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	N	0
2 - ON	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	N	0
3 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	N	0
4 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	N	0
5 - PRESSURE TYPE CO	0	0	1	N	O	N	O	N	O	0	0	0	0	0	1	O	N
6 - DE FOR TIER II R	0	0	1	N	O	N	O	N	O	0	0	0	0	0	1	O	N
7 - EPORT	1	5	1	Y	O	N	O	Y	0	0	0	0	8	0	1	O	N
8 - DESCRIPTION	35	6	1	N	O	N	O	Y	0	0	0	8	0	0	0	N	35
9 - F1-HELP	0	0	1	N	O	N	O	N	O	0	0	0	0	0	1	O	N
10 - ESC-EXIT	0	0	1	N	O	N	O	N	O	0	0	0	0	0	1	O	N

TOTALS: Stored: 36 Keys: 1 Chars on oneliner: 37
Non-stored: 0 Keysize: 26
Record size: 41

CURRENTLY DEFINED REPORTS -

REPORT FILE: PCOND.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

PCOND 1

PRESSURE CONDITION

PRESSURE TYPE CODE FOR TIER II REPORT: _.

DESCRIPTION: _____.

F1-HELP ESC-EXIT

SUMMARY FOR: TCOND Application version #: 7 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS
Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Items to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	E	N	P	O	A	I	E	T	U	I	S	M	A	A	F	T	P	N	D	S	O
	N	C	G	I	Y	P	P	I	C	N	E	U	T	P	T	T	T	T	P	E		
1 - TEMPERATURE COND	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0		
2 - ITION	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0		
3 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0		
4 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0		
5 - TIER II TEMPERAT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0		
6 - URE TYPE	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	1	N	0		
7 - CODE	1	5	1	Y	O	N	0	Y	0	0	0	0	0	0	8	0	1	0	N	1		
8 - TEMPERATURE TYPE	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	N	0		
9 - DESCRIPTION	40	6	1	N	O	N	0	Y	0	0	0	0	0	0	8	0	0	0	N	40		
10 - F1-HELP	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	1	N	0		
11 - ESC-EXIT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	1	N	0		

TOTALS: Stored: 41 Keys: 1 Chars on oneliner: 42
Non-stored: 0 Keysize: 26
Record size: 46

CURRENTLY DEFINED REPORTS -

REPORT FILE: TCOND.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

TCOND 1

TEMPERATURE CONDITION

TIER II TEMPERATURE TYPE CODE: _.

TEMPERATURE TYPE DESCRIPTION: _____.

F1-HELP ESC-EXIT

SUMMARY FOR: TTRANGE Application version #: 6 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION
OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	E	N	P	C	G	I	Y	P	F	C	S	M	A	A	F	T	P	N	D	S	O
1 - TIER II REPORTIN	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0
2 - G RANGES	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0
3 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0
4 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0
5 - REPORTING RANGE	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	1	O	N	0
6 - FOR TIER II REPO	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	1	O	N	0
7 - RT	2	5	1	Y	O	N	0	Y	0	0	0	8	0	1	O	N	2					
8 - LOWER VALUE FOR	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0
9 - THIS	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0
10 - CODE	12	7	1	N	O	N	0	Y	0	0	0	2	0	0	0	0	0	0	0	N	12	0
11 - (POUNDS)	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0
12 - UPPER VALUE FOR	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0
13 - THIS CODE	12	19	1	N	O	N	0	Y	0	0	0	2	0	0	0	0	0	0	0	N	12	0
14 - (POUNDS)	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0
15 - F1-HELP	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	1	O	N	0
16 - ESC-EXIT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	1	O	N	0
TOTALS:	Stored:	26	Keys:	1																		
	Non-stored:	0	Keysize:	26																		
	Record size:	31																				

Chars on oneliner: 28

CURRENTLY DEFINED REPORTS -

REPORT FILE: TTRANGE.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

TTRANGE 1

TIER II REPORTING RANGES

REPORTING RANGE FOR TIER II REPORT: ____.

LOWER VALUE FOR THIS CODE: _____. (POUNDS)

UPPER VALUE FOR THIS CODE: _____. (POUNDS)

F1-HELP ESC-EXIT

SUMMARY FOR: UNIT Application version #: 12 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS
Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDFA

	L	E	N	P	O	A	I	E	T	U	I	E	A	T	T	M	Y	N	A	A	K	N
	C	G	I	Y	P	P	I	C	N	E	U	T	P	T	T	P	E					
1 - CONTAINER UNIT	0	0	1	N	O	N	O	N	0	0	0	0	0	0	0	0	0	0	N	0	0	0
2 -	0	0	1	N	O	N	O	N	0	0	0	0	0	0	0	0	0	0	N	0	0	0
3 - CONTAINER UNIT C	0	0	1	N	O	N	O	N	0	0	0	0	0	0	0	0	0	1	O	N	0	0
4 - ODE	1	5	1	Y	O	N	O	Y	0	0	0	0	8	0	1	0	N	1				
5 - UNIT	0	0	1	N	O	N	O	N	0	0	0	0	0	0	0	0	0	N	0	0	0	0
6 - DESCRIPTION	15	6	1	N	O	N	O	Y	0	0	0	0	8	0	0	0	N	15				
7 - FACTOR TO CONVER	0	0	1	N	O	N	O	N	0	0	0	0	0	0	0	0	N	0	0	0	0	0
8 - T TO	0	0	1	N	O	N	O	N	0	0	0	0	0	0	0	0	N	0	0	0	0	0
9 - GALLONS	8	21	1	N	O	N	O	N	0	0	0	0	2	4	0	0	N	8				
10 - FACTOR TO CONVER	0	0	1	N	O	N	O	N	0	0	0	0	0	0	0	0	N	0	0	0	0	0
11 - T TO	0	0	1	N	O	N	O	N	0	0	0	0	0	0	0	0	N	0	0	0	0	0
12 - POUNDS	8	29	1	N	O	N	O	N	0	0	0	0	2	4	0	0	N	8				
13 - F1-HELP	0	0	1	N	O	N	O	N	0	0	0	0	0	0	1	0	N	0	0	0	0	0
14 - ESC-EXIT	0	0	1	N	O	N	O	N	0	0	0	0	0	0	1	0	N	0	0	0	0	0

TOTALS: Stored: 32 Keys: 1 Chars on oneliner: 35
Non-stored: 0 Keysize: 26
Record size: 37

CURRENTLY DEFINED REPORTS -

REPORT FILE: UNIT.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

UNIT 1

CONTAINER UNIT

CONTAINER UNIT CODE: _.

UNIT DESCRIPTION: _____.

FACTOR TO CONVERT TO GALLONS: _____.

FACTOR TO CONVERT TO POUNDS: _____.

F1-HELP ESC-EXIT

SUMMARY FOR: CODATA Application version #: 19 01/11/92

APPLICATION Master: 5 Find: 5 Enter: 9 Update: 5
SECURITY Delete: 9 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION Message: CTRL: F-FIND, U-UPDATE
OPTIONS Alternate "." character : "." Alternate "-" character : "-"
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 4
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FUPR

	L	LP	I	K	K	D	S	M	A	A	F	T	P	N	D	S	O
	E	OA	ET	UI	EA	TT	TH	YN	AA	AK	N						
	N	CG	Y	PP	C	N	E	U	T	P	T	T	T	T	P	E	
1 - COMPANY DATA	0	0	1	N	N	N	0	N	0	0	0	0	0	0	0	N	0
2 - KEY	1	5	1	Y	N	9	N	0	0	0	0	0	0	1	0	N	0
3 -	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	N	0
4 - COMPANY	25	6	1	Y	N	0	Y	0	0	0	0	8	0	1	0	N	25
5 - ADDRESS1	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	N	0
6 - 1	20	31	1	N	N	0	N	0	0	0	0	8	0	8	0	N	20
7 - ADDRESS2	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	N	0
8 - 2	20	51	1	N	N	0	N	0	0	0	0	8	0	8	0	N	0
9 - CITY	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	N	0
10 - 3	15	71	1	N	N	0	N	0	0	0	0	9	0	8	0	N	15
11 - STATE	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	N	0
12 - 4	2	86	1	N	N	0	N	0	0	0	0	9	0	8	0	N	5
13 - ZIP CODE	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	N	0
14 - 5	10	88	1	N	N	0	N	0	0	0	7	2	0	8	0	N	0
15 - SIC	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	N	0
16 - CODE	4	98	1	N	N	0	N	0	0	0	0	8	0	0	0	N	0
17 - DUN & BRAD NUMBE	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	N	0
18 - R	11	102	1	N	N	0	N	0	0	0	0	8	0	0	0	N	0
19 - OPERATOR	30	113	1	N	N	0	N	0	0	0	0	0	0	0	0	N	0
20 - ADDRESS1	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	N	0
21 - 6	20	143	1	N	N	0	N	0	0	0	0	8	0	8	0	N	0
22 - ADDRESS2	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	N	0
23 - 7	20	163	1	N	N	0	N	0	0	0	0	8	0	8	0	N	0
24 - CITY	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	N	0
25 - 8	15	183	1	N	N	0	N	0	0	0	0	9	0	8	0	N	0
26 - STATE	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	N	0
27 - 9	2	198	1	N	N	0	N	0	0	0	0	9	0	8	0	N	0
28 - ZIP CODE	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	N	0
29 - A	10	200	1	N	N	0	N	0	0	7	2	0	8	0	0	N	0

CURRENTLY DEFINED REPORTS -
NONE DEFINED

30 - EMERGENCY CONTAC	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	0	0
31 - T	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	0	0
32 - B	23	210	1	N	N	0	N	0	0	0	0	0	0	8	0	0	0
33 - TITLE	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	0	0
34 - C	15	233	1	N	N	0	N	0	0	0	0	0	0	8	0	0	0
35 - PHONE NUMBER	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	0	0
36 - D	12	248	1	N	N	0	N	0	0	0	5	2	0	8	0	0	0
37 - 24 HOUR PHONE	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	0	0
38 - E	12	260	1	N	N	0	N	0	0	0	5	2	0	8	0	0	0
39 - EMERGENCY CONTAC	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	0	0
40 - T	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	0	0
41 - F	23	272	1	N	N	0	N	0	0	0	0	0	8	0	0	0	0
42 - TITLE	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	0	0
43 - G	15	295	1	N	N	0	N	0	0	0	0	0	8	0	0	0	0
44 - PHONE NUMBER	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	0	0
45 - H	12	310	1	N	N	0	N	0	0	0	5	2	0	8	0	0	0
46 - 24 HOUR PHONE	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	0	0
47 - I	12	322	1	N	N	0	N	0	0	0	5	2	0	8	0	0	0
48 - F1-HELP	0	0	1	N	N	0	N	0	0	0	0	0	0	0	1	0	0
49 - ESC-EXIT	0	0	1	N	N	0	N	0	0	0	0	0	0	0	0	1	0
TOTALS:	Stored:	329	Keys:	2	Chars on onelin												
	Non-stored:	0	Keysize:	26													
	Record size:	334															

CODATA 1

COMPANY DATA

KEY: ..

COMPANY: _____
ADDRESS1 I: _____
ADDRESS2 2: _____
CITY 3: _____, STATE 4: _____, ZIP CODE 5: _____
SIC CODE: _____, DUN & BRAD NUMBER: _____
OPERATOR: _____
ADDRESS1 6: _____
ADDRESS2 7: _____
CITY 8: _____, STATE 9: _____
ZIP CODE A: _____
EMERGENCY CONTACT B: _____, TITLE C: _____
PHONE NUMBER D: _____, 24 HOUR PHONE E: _____
EMERGENCY CONTACT F: _____, TITLE G: _____
PHONE NUMBER H: _____, 24 HOUR PHONE I: _____
F1-HELP ESC-EXIT

SUMMARY FOR: DEPT Application version #: 7 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION
OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPRBCX

	L	LP	K	K	D	I	S	H	A	A	F	T	P	N	D	S	O	
	E	O	A	E	T	U	I	E	A	T	T	M	Y	N	A	A	K	N
	N	C	G	I	Y	P	P	I	C	N	E	U	T	P	T	T	P	E
1 - DEPARTMENT MASTE	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	N	0
2 - R	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	N	0
3 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	N	0
4 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	N	0
5 - DEPARTMENT NUMBE	0	0	1	N	O	N	O	N	O	0	0	0	0	0	1	0	N	0
6 - R	4	5	1	Y	O	N	O	Y	O	0	0	8	0	1	0	N	4	
7 - DEPARTMENT	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	N	0
8 - NAME	15	9	1	N	O	N	O	N	O	0	0	8	0	0	0	0	N	15
9 - F1-HELP	0	0	1	N	O	N	O	N	O	0	0	0	0	1	0	N	0	
10 - ESC-EXIT	0	0	1	N	O	N	O	N	O	0	0	0	0	1	0	N	0	

TOTALS: Stored: 19 Keys: 1 Chars on oneliner: 20
Non-stored: 0 Keysize: 26
Record size: 24

CURRENTLY DEFINED REPORTS -

REPORT FILE: DEPT.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

DEPT 1

DEPARTMENT MASTER

DEPARTMENT NUMBER: ____.

DEPARTMENT NAME: _____.

F1-HELP ESC-EXIT

SUMMARY FOR: EMPL Application version #: 11 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS
Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Items to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPRBCX
Other valid commands : G

	L	LP	K	K	D	S	M	A	A	F	T	P	N	D	S	O
	E	OA	ET	UT	EA	TT	MY	NA	AA	KN						
	N	CG	Y	PP	C	N	E	U	T	P	T	T	T	P	E	
1 - EMPLOYEE MASTER	0	0	1	N	O	N	0	N	0	0	0	0	0	0	N	0
2 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	N	0
3 - EMPLOYEE	0	0	1	N	O	N	0	N	0	0	0	0	0	1	O	N
4 - NUMBER	5	5	1	Y	O	N	0	Y	0	0	0	2	0	1	O	N
5 - LAST NAME	15	10	1	N	O	N	0	N	0	0	0	8	0	0	0	N
6 - FIRST NAME	15	25	1	N	O	N	0	N	0	0	0	8	0	0	0	N
7 - MIDDLE	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	N
8 - INITIAL	1	40	1	N	O	N	0	N	0	0	0	8	0	0	0	N
9 - DEPT	4	41	1	N	O	N	0	Y	0	0	0	8	0	0	0	N
10 - 1	(15)	5	1	N	O	N	0	N	0	0	0	8	0	8	0	N
11 - F1-HELP	0	0	1	N	O	N	0	N	0	0	0	0	0	1	O	N
12 - ESC-EXIT	0	0	1	N	O	N	0	N	0	0	0	0	0	1	O	N
TOTALS:	Stored:	40	Keys:	1										Chars on oneliner:	44	
	Non-stored:	15	Keysize:	26												
	Record size:	45														

CURRENTLY DEFINED REPORTS -

REPORT FILE: EMPL.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

EMPL 1

EMPLOYEE MASTER

EMPLOYEE NUMBER: ____.
LAST_NAME: _____.
FIRST_NAME: _____.
MIDDLE INITIAL: _____.
DEPT: ____ 1::_____.

F1-HELP ESC-EXIT

SUMMARY FOR: TPQ302 Application version #: 10 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION Alternate ":" character : ":" Alternate "." character : "."
OPTIONS Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF: N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR
Other valid commands : G

	L	E	N	P	C	G	I	K	K	D	I	S	H	A	A	F	T	P	N	D	S	O
1 - SECTION 302 CHEM	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	N	0	0
2 - ICALS - EHS'S WI	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	N	0	0
3 - TH TPO'S	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	N	0	0
4 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	N	0	0
5 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	N	0	0
6 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	N	0	0
7 - CHEMICAL ID NUMB	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	N	0	0
8 - ER	6	5	1	Y	O	N	O	Y	0	0	0	0	0	0	0	0	0	0	1	O	N	0
9 - CAS#	(9)	5	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	Y	0	0
10 - NAME	(80)	14	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	Y	0	0
11 - THRESHOLD PLANNI	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	N	0	0
12 - NG QTY - LIQ, GA	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	N	0	0
13 - S, FINE	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	N	0	0
14 - PART	5	11	1	N	O	N	O	Y	0	0	0	0	0	0	0	0	0	0	0	N	5	0
15 - (POUNDS)	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	N	0	0
16 - THRESHOLD PLANNI	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	N	0	0
17 - NG QTY - GENERAT	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	N	0	0
18 - ED	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	N	0	0
19 - SOLIDS	5	16	1	N	O	N	O	Y	0	0	0	0	0	0	0	0	0	0	0	N	5	0
20 - (POUNDS)	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	0	N	0	0
21 - F1=HELP	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	1	O	N	0
22 - EXIT=ESC	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	0	0	1	O	N	0
TOTALS:	Stored:	16	Keys:	1	Chars on oneliner:	18																
	Non-stored:	89	Keysize:	26																		
	Record size:	21																				

CURRENTLY DEFINED REPORTS -

REPORT FILE: TPQ302.TRI
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

TPQ302 1

SECTION 302 CHEMICALS - EHS'S WITH TPO'S

CHEMICAL ID NUMBER: _____. CAS#:: _____.
NAME:: _____

THRESHOLD PLANNING QTY - LIQ, GAS, FINE PART: _____. (POUNDS)

THRESHOLD PLANNING QTY - GENERATED SOLIDS: _____. (POUNDS)

F1=HELP EXIT=ESC

SUMMARY FOR: RQ304 Application version #: 11 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR
Other valid commands : G

	L	E	N	P	O	A	C	G	I	K	K	D	I	S	M	A	A	F	T	P	N	D	S	O
1 - SECTION 304 CHEM	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	N	0	0
2 - ICALS - EHS'S +	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	N	0	0
3 - CERCLA WITH RQ'S	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	N	0	0
4 -	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	N	0	0
5 -	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	N	0	0
6 -	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	N	0	0
7 - CHEMICAL ID NUMB	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	1	N	0	0
8 - ER	6	5	1	Y	O	N	N	0	Y	0	0	0	0	4	0	1	0	N	6					
9 - CAS#	(8)	5	1	N	O	N	N	0	N	0	0	0	0	8	0	0	0	Y	0					
10 - NAME	(80)	13	1	N	O	N	N	0	N	0	0	0	0	0	0	0	0	Y	0					
11 - REPORTABLE QUANT	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	0	N	0					
12 - ITY	6	11	1	N	O	N	N	0	Y	0	0	0	0	2	0	0	0	N	8					
13 - (POUNDS)	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	0	N	0					
14 - F1-HELP	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	1	N	0					
15 - ESC=EXIT	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	1	0	N	0					
TOTALS:	Stored:	12	Keys:	1	Chars on oneliner:	15																		
	Non-stored:	88	Keysize:	26																				
	Record size:	17																						

CURRENTLY DEFINED REPORTS -

REPORT FILE: RQ304.TRI
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

RQ304 1

SECTION 304 CHEMICALS - EHS'S + CERCLA WITH RQ'S

CHEMICAL ID NUMBER: ____ CAS#: ____

NAME: ____

REPORTABLE QUANTITY: ____ (POUNDS)

F1-HELP ESC=EXIT

SUMMARY FOR: TOX313 Application version #: 9 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION Alternate ":" character : ":" Alternate "." character : "."
OPTIONS Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Items to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR
Other valid commands : G

	L	E	N	P	O	A	C	G	I	E	T	U	I	E	A	T	T	M	Y	N	A	A	K	N
1 - SECTION 313 TOXI	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0	
2 - C CHEMICALS	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0	
3 -	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0	
4 -	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	0	0	0	0	N	0	0	
5 - CHEMICAL ID NUMB	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	0	0	0	0	1	0	N	0	
6 - ER	6	5	1	Y	O	N	0	Y	0	0	0	0	4	0	1	0	N	6						
7 - CAS#	(8)	5	1	N	O	N	N	0	N	0	0	0	8	0	0	0	Y	0						
8 - NAME	(80)	13	1	N	O	N	N	0	N	0	0	0	8	0	0	0	Y	0						
9 - F1-HELP	0	0	1	N	O	N	N	0	N	0	0	0	0	0	0	1	0	N	0					
10 - ESC-EXIT	0	0	1	N	O	N	N	0	N	0	0	0	0	0	1	0	N	0						

TOTALS: Stored: 6 Keys: 1 Chars on oneliner: 6
Non-stored: 88 Keysize:26
Record size: 11

CURRENTLY DEFINED REPORTS -

REPORT FILE: TOX313.TRI
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

TOX313 1

SECTION 313 TOXIC CHEMICALS

CHEMICAL ID NUMBER: _____

CAS#:: _____

NAME:: _____

F1-HELP ESC-EXIT

SUMMARY FOR: OSHA Application version #: 8 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS
Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Items to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR
Other valid commands : G

L L P I K K D I S M A A F T P N D S O
E O A I E T U I E A T T M Y N A A K N
N C G I Y P P I C N E U T P T T T P E

1 - OSHA HAZARDOUS C	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	N	0
2 - HEMICALS	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	N	0
3 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	N	0
4 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	N	0
5 - CHEMICAL ID NUMB	0	0	1	N	O	N	0	N	0	0	0	0	0	1	0	N	0
6 - ER	6	5	1	Y	O	N	0	Y	0	0	0	4	0	1	0	N	6
7 - CAS#	(8)	5	1	N	O	N	0	N	0	0	0	8	0	0	0	Y	0
8 - NAME	(80)	13	1	N	O	N	0	N	0	0	0	8	0	0	0	Y	0
9 - FI-HELP	0	0	1	N	O	N	0	N	0	0	0	0	0	1	0	N	0
10 - ESC-EXIT	0	0	1	N	O	N	0	N	0	0	0	0	0	1	0	N	0

TOTALS: Stored: 6 Keys: 1 Chars on oneliner: 6
Non-stored: 88 Keysize:26
Record size: 11

CURRENTLY DEFINED REPORTS -

REPORT FILE: OSHA.TRI
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

OSHA 1

OSHA HAZARDOUS CHEMICALS

CHEMICAL ID NUMBER: _____

CAS#:: _____

NAME:: _____

FI-HELP ESC-EXIT

SUMMARY FOR: E2588 Application version #: 9 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION Alternate ":" character : ":" Alternate "." character : "."
OPTIONS Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	LP	KK	DD	SS	MM	AA	TT	PP	NN	DD	SS	OO	
	E	OA	ET	UT	EE	AT	TH	YN	AA	KK	NN			
	N	CG	Y	PP	IC	NE	UT	PT	TT	TT	TP		E	
1 - CALIFORNIA AB258	0	0	1	N	N	0	N	0	0	0	0	0	N	0
2 - 8 A-I CHEMICALS	0	0	1	N	N	0	N	0	0	0	0	0	N	0
3 - EMISSIONS	0	0	1	N	N	0	N	0	0	0	0	0	N	0
4 -	0	0	1	N	N	0	N	0	0	0	0	0	N	0
5 -	0	0	1	N	N	0	N	0	0	0	0	0	N	0
6 -	0	0	1	N	N	0	N	0	0	0	0	0	N	0
7 - CHEMICAL ID NUMB	0	0	1	N	N	0	N	0	0	0	0	1	N	0
8 - ER	6	5	1	Y	ON	6	Y	6	6	4	6	1	6	6
9 - CARCINOGENIC	1	1	1	N	N	0	N	0	0	0	0	0	N	1
10 - (Y/N)	0	0	1	N	N	0	N	0	0	0	0	1	N	0
11 - CAS#	(8)	5	1	N	N	0	N	0	0	0	0	0	Y	0
12 - NAME	(80)	13	1	N	N	0	N	0	0	0	0	0	Y	0
13 - F1-HELP	0	0	1	N	N	0	N	0	0	0	0	1	N	0
14 - ESC-EXIT	0	0	1	N	N	0	N	0	0	0	0	1	N	0
TOTALS:	Stored:	7	Keys:	1										
	Non-stored:	88	Keysize:	26										
	Record size:	12												

CURRENTLY DEFINED REPORTS -

REPORT FILE: E2588.TRI
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

E2588 1

CALIFORNIA AB2588 A-I CHEMICALS| EMISSIONS

CHEMICAL ID NUMBER: _____

CARCINOGENIC: _ (Y/N)

CAS# : _____

NAME : _____

F1-HELP ESC-EXIT

SUMMARY FOR: P2588 Application version #: 9 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS Alternate "-" character : "-" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Items to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	E	N	P	O	A	E	T	U	C	G	Y	P	P	I	C	N	E	U	T	P	T	T	T	P	E
1 - CALIFORNIA AB258	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 - 8 A-II CHEMICALS	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 - 1 PRODUCE, USE O	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 - R PRESENCE	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 -	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 - CHEMICAL ID NUMB	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 - ER	6	5	1	Y	O	N	0	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - CARCINOGENIC	1	1	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 - (Y/N)	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 - CAS#	(8)	5	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 - NAME	(80)	13	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 - F1-HELP	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 - ESC-EXIT	0	0	1	N	O	N	0	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS:	Stored:	7	Keys:	1	Chars on oneliner:	8																				
	Non-stored:	88	Keysize:	26																						
	Record size:	12																								

CURRENTLY DEFINED REPORTS -

REPORT FILE: P2588.TRI
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

P2588 1

CALIFORNIA AB2588 A-II CHEMICALS| PRODUCE, USE OR PRESENCE

CHEMICAL ID NUMBER: _____

CARCINOGENIC: _ (Y/N)

CAS#:: _____

NAME:: _____

F1-HELP ESC-EXIT

SUMMARY FOR: CONT Application version #: 8 01/11/92

APPLICATION SECURITY Master: 1 Find: 1 Enter: 3 Update: 3
Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	E	N	L	P	I	K	K	D	S	M	A	A	F	T	P	N	D	S	O
	E	O	A	I	E	T	U	I	E	A	T	T	M	Y	N	A	A	K	N	
	N	C	G	I	Y	P	P	I	C	N	E	U	T	P	T	T	T	P	E	
1 - CONTRACT MASTER	0	0	1	N	O	N	O	N	O	N	0	0	0	0	0	0	0	N	0	
2 -	0	0	1	N	O	N	O	N	0	0	0	0	0	0	0	0	N	0		
3 - CONTRACT	0	0	1	N	O	N	O	N	0	0	0	0	0	0	0	1	N	0		
4 - NUMBER	4	5	1	Y	O	N	O	Y	0	0	0	0	6	0	1	0	N	4		
5 - DESCRIPTION	21	9	1	N	O	N	O	Y	0	0	0	0	8	0	0	0	N	21		
6 - F1-HELP	0	0	1	N	O	N	O	N	0	0	0	0	0	0	1	0	N	0		
7 - ESC-EXIT	0	0	1	N	O	N	O	N	0	0	0	0	0	0	1	0	N	0		
TOTALS:	Stored:	25	Keys:	1														Chars on oneliner:	26	
	Non-stored:	0	Keysize:	26																
	Record size:	30																		

CURRENTLY DEFINED REPORTS -

REPORT FILE: CONT.TRI
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

CONT 1

CONTRACT MASTER

CONTRACT NUMBER: _____.

DESCRIPTION: _____.

F1-HELP ESC-EXIT

SUMMARY FOR: HULL Application version #: 12 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION
OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR
Other valid commands : G

	L	LP	KK	DD	SS	MM	AA	FF	TT	PP	NN	DD	SS	OO
	E	OA	ET	UI	EA	TT	MM	YY	NA	AA	KK	NN		
	N	CG	Y	PP	C	N	E	U	T	P	T	T	P	E
1 - HULL MASTER	0	0	1	N	N	0	N	0	0	0	0	0	0	N
2 -	0	0	1	N	N	0	N	0	0	0	0	0	0	N
3 - HULL	0	0	1	N	N	0	N	0	0	0	0	0	0	N
4 - NUMBER	4	5	1	Y	O	Y	0	0	0	0	6	0	1	N
5 - DESCRIPTION	35	9	1	N	N	0	Y	0	0	0	8	0	0	N
6 - CONTRACT	4	44	1	N	N	0	Y	0	0	0	6	0	0	N
7 - KEY	8	48	1	Y	O	N	9	N	0	0	0	0	1	N
8 - F1-HELP	0	0	1	N	N	0	N	0	0	0	0	0	1	N
9 - ESC-EXIT	0	0	1	N	N	0	N	0	0	0	0	1	0	N
TOTALS:	Stored:	51	Keys:	2									Chars on oneliner:	31
	Non-stored:	0	Keysize:	26										
	Record size:	56												

CURRENTLY DEFINED REPORTS -

REPORT FILE: HULL.TRI
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

HULL 1

HULL MASTER

HULL NUMBER: ____
DESCRIPTION: ____
CONTRACT: ____

KEY: ____

F1-HELP ESC-EXIT

SUMMARY FOR: SWBS Application version #: 10 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION
OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPR

	L	P	K	K	D	S	H	A	A	F	T	P	N	D	S	O			
	R	O	A	I	E	T	U	I	E	A	T	T	M	Y	N	A	A	K	N
	N	C	G	I	Y	P	P	I	C	N	E	U	T	P	T	T	T	P	E

1 - SHIP WORK BREAKD	0	0	1	N	O	N	O	N	0	0	0	0	0	0	0	0	N	0
2 - OWN STRUCTURE (S	0	0	1	N	O	N	O	N	0	0	0	0	0	0	0	0	N	0
3 - WBS) MASTER	0	0	1	N	O	N	O	N	0	0	0	0	0	0	0	0	N	0
4 -	0	0	1	N	O	N	O	N	0	0	0	0	0	0	0	0	N	0
5 -	0	0	1	N	O	N	O	N	0	0	0	0	0	0	0	0	N	0
6 -	0	0	1	N	O	N	O	N	0	0	0	0	0	0	0	0	N	0
7 - SWBS	0	0	1	N	O	N	O	N	0	0	0	0	0	0	1	0	N	0
8 - NUMBER	3	5	1	Y	O	N	O	Y	0	0	0	6	0	1	0	N	4	
9 - DESCRIPTION	50	8	1	N	O	N	O	Y	0	0	0	8	0	0	0	N	35	
10 - F1-HELP	0	0	1	N	O	N	O	N	0	0	0	0	0	1	0	N	0	
11 - ESC-EXIT	0	0	1	N	O	N	O	N	0	0	0	0	0	1	0	N	0	

TOTALS: Stored: 53 Keys: 1 Chars on oneliner: 40
Non-stored: 0 Keysize:26
Record size: 58

CURRENTLY DEFINED REPORTS -

REPORT FILE: SWBS.TRI
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

SWBS 1

SHIP WORK BREAKDOWN STRUCTURE (SWBS) MASTER

SWBS NUMBER: ____.

DESCRIPTION: _____.

F1-HELP ESC-EXIT

SUMMARY FOR: COUNTS Application version #: 21 01/11/92

APPLICATION Master: 7 Find: 7 Enter: 9 Update: 7
SECURITY Delete: 9 Print: 7 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION Message: CTRL: U-UPDATE
OPTIONS Alternate ":" character : ":" Alternate "." character : "."
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FUFR

	L	LP	K	KD	S	M	A	A	F	T	P	N	D	S	O
	E	OA	IE	TU	E	A	T	H	Y	N	A	A	K	N	
	N	CG	I	Y	PP	C	N	E	U	T	P	T	T	P	E
1 - ID# COUNTER MAST	0	0	1	N	N	0	N	0	0	0	0	0	0	N	0
2 - ER	0	0	1	N	N	0	N	0	0	0	0	0	0	N	0
3 -	0	0	1	N	N	0	N	0	0	0	0	0	0	N	0
4 -	0	0	1	N	N	0	N	0	0	0	0	0	0	N	0
5 - UNIQUE ID NUMBER	0	0	1	N	N	0	N	0	0	0	0	0	1	N	0
6 - S	0	0	1	N	N	0	N	0	0	0	0	0	1	N	0
7 - HAZARDOUS PRODUC	0	0	1	N	N	0	N	0	0	0	0	0	0	N	0
8 - T	6	5	1	N	N	0	Y	0	0	0	6	0	0	N	6
9 - 1	6	11	1	N	N	0	Y	0	0	0	6	0	0	N	6
10 - CHEMICAL	6	17	1	N	N	0	Y	0	0	0	6	0	0	N	6
11 - 2	6	23	1	N	N	0	Y	0	0	0	6	0	0	N	6
12 - CHEMICAL	0	0	1	N	N	0	N	0	0	0	0	0	0	N	0
13 - SYNONYM	6	29	1	N	N	0	Y	0	0	0	6	0	0	N	6
14 - 3	6	35	1	N	N	0	Y	0	0	0	6	0	0	N	0
15 - MANUFACTURER	5	41	1	N	N	0	Y	0	0	0	6	0	0	N	5
16 - 4	5	46	1	N	N	0	Y	0	0	0	6	0	0	N	0
17 - PROCESS	4	51	1	N	N	0	Y	0	0	0	6	0	0	N	4
18 - 5	4	55	1	N	N	0	Y	0	0	0	6	0	0	N	0
19 - BARCODE	0	0	1	N	N	0	N	0	0	0	0	0	0	N	0
20 - HPID#	6	59	1	N	N	0	Y	0	0	0	6	0	0	N	0
21 - 6	6	65	1	N	N	0	Y	0	0	0	6	0	0	N	0
22 - KEYDATA	1	71	1	Y	N	0	Y	0	0	0	8	0	1	N	0
23 - F1-HELP	0	0	1	N	N	0	N	0	0	0	0	0	1	N	0
24 - ESC-EXIT	0	0	1	N	N	0	N	0	0	0	0	1	0	N	0

TOTALS: Stored: 67 Keys: 1 Chars on onelin
Non-stored: 0 Keysize:26
Record size: 72

CURRENTLY DEFINED REPORTS -
NONE DEFINED

COUNTS 1

ID# COUNTER MASTER

UNIQUE ID NUMBERS

HAZARDOUS PRODUCT: ____ 1: ____

CHEMICAL: ____ 2: ____

CHEMICAL SYNONYM: ____ 3: ____

MANUFACTURER: ____ 4: ____

PROCESS: ____ 5: ____

BARCODE HPID#: ____ 6: ____

KEYDATA: _

F1-HELP ESC-EXIT

SUMMARY FOR: PLANT Application version #: 9 01/11/92

APPLICATION Master: 1 Find: 1 Enter: 3 Update: 3
SECURITY Delete: 3 Print: 1 Batch: 9 Audit: 0
Record Security is DISABLED

APPLICATION OPTIONS Alternate ":" character : ":" Alternato "*" character : "*"
Display message : Y Display Page number : N
Display time : Y Display command : Y
Allow tab to home : Y Data application : Y
Lines to print after page: 0 Item# to start cursor on: 1
Full field tab option : - Number of oneliners : 20
Clear screen on enter : N Clear non-stored on RNF : N
Allow use of ZAP key : Y Allow use of ESC key : Y
Valid database commands : FEUDPRECK

	L	P	K	K	D	I	S	M	A	A	F	T	P	N	D	S	O	
	E	O	A	I	E	T	U	I	E	A	T	T	M	Y	N	A	K	N
	N	C	G	I	Y	P	P	I	C	N	E	U	T	P	T	T	P	E
1 - PLANT OR SITE MA	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	N	0
2 - STER	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	N	0
3 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	N	0
4 -	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	N	0
5 - PLANT OR	0	0	1	N	O	N	O	N	O	0	0	0	0	0	1	0	N	0
6 - SITE	4	5	1	Y	O	N	O	Y	0	0	0	0	4	0	1	0	N	4
7 - PLANT OR SITE DE	0	0	1	N	O	N	O	N	O	0	0	0	0	0	0	0	N	0
8 - Scription	30	5	1	N	O	N	O	Y	0	0	0	8	0	0	0	0	N	30
9 - F1-HELP	0	0	1	N	O	N	O	N	O	0	0	0	0	0	1	0	N	0
10 - ESC-EXIT	0	0	1	N	O	N	O	N	O	0	0	0	0	1	0	N	0	
TOTALS:	Stored:	34	Keys:	1														Chars on oneliner: 35
	Non-stored:	0	Keysize:	26														
	Record size:	39																

CURRENTLY DEFINED REPORTS -

REPORT FILE: PLANT.TRO
REPORT NAME: MASTER
DESCRIPTION:
RAW DATA

ADDITIONAL APPLICATIONS ACCESSED: CODATA

PLANT 1

PLANT OR SITE MASTER

PLANT OR SITE: _____

PLANT OR SITE DESCRIPTION: _____

F1-HELP ESC-EXIT

Report Listings

The report listings provide detailed information for those that wish to transfer HMTS to a system other than a PC compatible environment. The report listings contain information with respect to report order, selection criteria, edit relationships and so on. All calculations made within each report are identified.

Report Listing Legend	
(LEN) - Data length in bytes	(PAG) - Item page number
(KEY) - Is item a key	(KTP) - Type of key
(DUP) - Are duplicate keys allowed	(MAN) - Is item mandatory
(SEC) - Data security	(ATE) - Auto generate on enter
(ATU) - Auto generate on update	(FMT) - Data format
(TYP) - Data type	(PNT) - Data decimal point position
(NAT) - Name attribute	(DAT) - Data attribute
(SKP) - Tab skip field	(NSD) - Non-stored data field
(ONE) - Number of bytes to be used in one line display	
(KTP) : 0 - exact substitution 1 - Name encoding 2 - Name/sound encoding	
3 - Date (mm/dd/yy) 4 - Date/Time (mm/dd/yy hh:mm:sec)	
5 - Int Date(dd/mm/yy) 6 - Int Date/Time (dd/mm/yy hh:mm:sec)	
(ATE)/(ATU): 0 - none 1 - date/time 2 - username 3 - date 4 - time	
(FMT) : 0 - none 1 - date 2 - Military date 3 - time 4 - SSN	
5 - ten digit phone 6 - seven digit phone 7 - nine digit zip code	
(TYP) : 0 - alphanumeric 1 - alpha 2 - numeric 3 - money	
4 - full alphanumeric 5 - full alpha 6 - full numeric	
7 - full money 8 - upcase alphanumeric 9 - upcase alpha	
C - upcase full alphanumeric D - upcase full alpha	
(SKP) : N - tab to item Y - skip item 1-9 security needed to tab to item	
(SEC) : 0 - low ... 9 - high N - No access	

CONTA.TRO Version # 35 Date: 01/13/92

CNT BY DEPT/AREA
CONTAINERS BY DEPT AND AREA

Generated from data contained in:

CONTA	CODATA	HP	AREA
DEPT			

Application Relationships

CODATA.KEY is found from data in SHV(1,1) -- REL TYPE = 2
HP.NUMBER is found from data in CONTA.NER -- REL TYPE = 2
AREA.NUMBER is found from data in CONTA.THIS_CONTAINER -- REL TYPE = 2
DEPT.R is found from data in CONTA.DEPT -- REL TYPE = 2

Change security: 0 Generate security: 0

Last user to modify this report: T

Number of lines per page: 60
Number of lines to use : 60
Line length of printer : 132
Width of left margin : 0
Spacing will be used to find the top of form

Attribute to initialize printer for this report: 0
Negative numbers will be printed preceded by a dash -

Any temporary sort files will be placed on TEAM-UP drive: C
Destination of this report: -
This report WILL be abortable.

Report Order

Name	Length	Order
CONTA.DEPT	4	A
CONTA.THIS_CONTAINER	4	A
CONTA.RANGE	8	A
Total	16	

This report will NOT utilize indexes.

Selection Criteria

Records to include must match the following criteria

Field length : 3 Print format: General format
Calculated from: #0
Row: 5 Col: 24 Printer attr: 0
Field length : 33 Print format: Left justified
String Value [CONTAINERS BY DEPARTMENT AND AREA]

PAGE HEADER

There are no entries defined for this block

SUB REPORT HEADER #1 which breaks on change of CONTA.DEPT

Printer attribute for this block: 6
Line spacing for this block : 1
Number of lines following block : 0
Blank data lines WILL NOT be printed
This block WILL cause a page break

Row: 1 Col: 1 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [DEPT:]

Row: 1 Col: 7 Printer attr: 0
Field length : 4 Print format: Left justified
Extracted from: CONTA.DEPT

Row: 1 Col: 13 Printer attr: 0
Field length : 15 Print format: Left justified
Extracted from: DEPT.NAME

Row: 2 Col: 1 Printer attr: 0
Field length : 27 Print format: Left justified
String Value [-----]

SUB REPORT HEADER #2 which breaks on change of CONTA.THIS_CONTAINER

Printer attribute for this block: 6
Line spacing for this block : 1
Number of lines following block : 0
Blank data lines WILL NOT be printed
This block WILL NOT cause a page break

Row: 1 Col: 3 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [AREA:]

Row: 1 Col: 9 Printer attr: 0
Field length : 4 Print format: Left justified
Extracted from: CONTA.THIS_CONTAINER

Row: 1 Col: 15 Printer attr: 0

1 - SHV(1,1):-'''
EQ

2 - ?ENTER DEPT#:

EQ

3 - ?ENTER AREA#:

EQ

CONTA.THIS_CONTAINER

Where 2 & 3 is TRUE

Update Printed Record

No records will be updated by this report

REPORT HEADER

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : 2
Blank data lines WILL be printed
The REPORT HEADER will be printed at the top of every page

Row: 1 Col: 1 Printer attr: 0
Field length : 25 Print format: Left justified
Extracted from: CODATA.COMPANY

Row: 1 Col: 59 Printer attr: 0
Field length : 13 Print format: Left justified
String Value [REPORT DATE:]

Row: 1 Col: 72 Printer attr: 0
Field length : 8 Print format: Left justified
Current system date

Row: 2 Col: 1 Printer attr: 0
Field length : 34 Print format: Left justified
String Value [HAZARDOUS MATERIAL TRACKING SYSTEM]

Row: 2 Col: 63 Printer attr: 0
Field length : 11 Print format: Left justified
String Value [REPORT#: 61]

Row: 3 Col: 63 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: #0:-#0 + 1

Row: 3 Col: 65 Printer attr: 0
Field length : 7 Print format: Left justified
String Value [PAGE#:]

Row: 3 Col: 72 Printer attr: 0

Field length : 40 Print format: Left justified
Extracted from: AREA.DESCRPTION

Row: 2 Col: 3 Printer attr: 0
Field length : 52 Print format: Left justified
String Value [-----]

Row: 3 Col: 5 Printer attr: 0
Field length : 5 Print format: Left justified
String Value [CONT#]

Row: 3 Col: 14 Printer attr: 0
Field length : 5 Print format: Left justified
String Value [PROOF#]

Row: 3 Col: 23 Printer attr: 0
Field length : 11 Print format: Left justified
String Value [DESCRIPTION]

Row: 3 Col: 76 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [CONT]

Row: 3 Col: 83 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [PRES]

Row: 3 Col: 90 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [TEMP]

Row: 3 Col: 97 Printer attr: 0
Field length : 7 Print format: Left justified
String Value [CURRENT]

Row: 3 Col: 108 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [UNIT]

Row: 3 Col: 114 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [DATE]

Row: 3 Col: 125 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [LAST]

Row: 4 Col: 76 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [TYPE]

Row: 4 Col: 83 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [TYPE]

Row: 4 Col: 90 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [TYPE]

Row: 4 Col: 97 Printer attr: 0

Field length : 8 Print format: Left justified
String Value [QUANTITY]

Row: 4 Col: 114 Printer attr: 0
Field length : 8 Print format: Left justified
String Value [RECEIVED]

Row: 4 Col: 125 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [CHANGE]

Row: 5 Col: 5 Printer attr: 0
Field length : 106 Print format: Left justified
String Value [-----]

Row: 5 Col: 111 Printer attr: 0
Field length : 22 Print format: Left justified
String Value [-----]

MAIN REPORT BODY

Printer attribute for this block: 6
Line spacing for this block : 1
Number of lines following block : 0
Blank data lines WILL NOT be printed
This block WILL NOT cause a page break

Row: 1 Col: 5 Printer attr: 0
Field length : 6 Print format: Left justified
Extracted from: CONTA.BER

Row: 1 Col: 14 Printer attr: 0
Field length : 6 Print format: Left justified
Extracted from: CONTA.NER

Row: 1 Col: 23 Printer attr: 0
Field length : 40 Print format: Left justified
Extracted from: HP.NAME

Row: 1 Col: 76 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CONTA.TYPE

Row: 1 Col: 83 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CONTA._TYPE

Row: 1 Col: 90 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CONTA.URE_TYPE

Row: 1 Col: 97 Printer attr: 0
Field length : 8 Print format: General format
Extracted from: CONTA._CONTAINER

Row: 1 Col: 111 Printer attr: 0
Field length : 1 Print format: Left justified

Extracted from: CONTA.ENTRERD

Row: 1 Col: 114 Printer attr: 0
Field length : 8 Print format: Left justified
Extracted from: CONTA.CONTAINER

Row: 1 Col: 125 Printer attr: 0
Field length : 8 Print format: Left justified
Extracted from: CONTA.HANGE

PAGE SUMMARY

There are no entries defined for this block

REPORT SUMMARY

There are no entries defined for this block

Memory variable usage summary

%0
Report Header
%0:-%0 + 1
%0

String memory variable usage summary

Selection Criteria
SMV(1,1):=""

CONT HIST
CONTAINER HISTORY FROM PERIOD TO PERIOD

Generated from data contained in:

PQUA CODATA HP CONTA
EMPL

Application Relationships

CODATA.KEY is found from data in SMV(1,1) -- REL TYPE = 2
HP.NUMBER is found from data in SMV(2,6) -- REL TYPE = 2
CONTA.BER is found from data in PQUA.BER -- REL TYPE = 2
EMPL.NUMBER is found from data in PQUA.REQUEST -- REL TYPE = 2

Change security: 0 Generate security: 0

Last user to modify this report: T

Number of lines per page: 60
Number of lines to use : 60
Line length of printer : 132
Width of left margin : 0
Spacing will be used to find the top of form

Attribute to initialize printer for this report: 0
Negative numbers will be printed preceded by a dash -

Any temporary sort files will be placed on TEAM-UP drive: C
Destination of this report: -
This report WILL be abortable.

Report Order

Name	Length	Order
PQUA.RECEIVED	0	A
PQUA.BER	6	A
PQUA.RECEIVED	8	A
Total	14	

Report will use index on PQUA.RECEIVED
Prompt for start key: ENTER START DATE:
Prompt for stop key: ENTER STOP DATE:

Selection Criteria

Records to include must match the following criteria

- 1 - SMV(1,1):='''
EQ
- 2 - ?ENTER DEPT#:
EQ
CONTA.DEPT
- 3 - ?ENTER AREA#:
EQ
PQUA.ID_NUMBER
- 4 - ?ENTER CONTAINER#:
EQ
PQUA.BER
- 5 - SMV(2,6):=-CONTA.BER
EQ

Where 2 & 3 & 4 is TRUE

Update Printed Record

No records will be updated by this report

REPORT HEADER

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : 2
Blank data lines WILL be printed
The REPORT HEADER will be printed at the top of every page

Row: 1 Col: 1 Printer attr: 0
Field length : 25 Print format: Left justified
Extracted from: CODATA.COMPANY

Row: 1 Col: 59 Printer attr: 0
Field length : 13 Print format: Left justified
String Value [REPORT DATE:]

Row: 1 Col: 72 Printer attr: 0
Field length : 8 Print format: Left justified
Current system date

Row: 2 Col: 1 Printer attr: 0
Field length : 34 Print format: Left justified
String Value [HAZARDOUS MATERIAL TRACKING SYSTEM]

Row: 2 Col: 63 Printer attr: 0
Field length : 11 Print format: Left justified
String Value [REPORT# 62]

Row: 3 Col: 63 Printer attr: 12

Field length : 1 Print format: General format
Calculated from: %0:=%0 + 1

Row: 3 Col: 65 Printer attr: 0
Field length : 7 Print format: Left justified
String Value [PAGE# :]

Row: 3 Col: 72 Printer attr: 0
Field length : 3 Print format: General format
Calculated from: %0

Row: 5 Col: 19 Printer attr: 0
Field length : 25 Print format: Left justified
String Value [CONTAINERS HISTORY FROM:]

Row: 5 Col: 44 Printer attr: 0
Field length : 8 Print format: Left justified
Calculated from: P119

Row: 5 Col: 53 Printer attr: 0
Field length : 2 Print format: Left justified
String Value [TO]

Row: 5 Col: 56 Printer attr: 0
Field length : 8 Print format: Left justified
Calculated from: P120

PAGE HEADER

Printer attribute for this block: 6
Line spacing for this block : 1
Number of lines following block : 0
Blank data lines WILL NOT be printed

Row: 1 Col: 1 Printer attr: 0
Field length : 8 Print format: Left justified
String Value [RCV/USED]

Row: 1 Col: 11 Printer attr: 0
Field length : 5 Print format: Left justified
String Value [CONT#]

Row: 1 Col: 19 Printer attr: 0
Field length : 5 Print format: Left justified
String Value [PROD#]

Row: 1 Col: 27 Printer attr: 0
Field length : 19 Print format: Left justified
String Value [PRODUCT DESCRIPTION]

Row: 1 Col: 69 Printer attr: 0
Field length : 10 Print format: Left justified
String Value [EMPL#NAME]

Row: 1 Col: 113 Printer attr: 0
Field length : 8 Print format: Left justified
String Value [QUANTITY]

Row: 1 Col: 124 Printer attr: 0
Field length : 8 Print format: Left justified
String Value [QUANTITY]

Row: 2 Col: 1 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [DATE]

Row: 2 Col: 113 Printer attr: 0
Field length : 8 Print format: Left justified
String Value [LBS RCVD]

Row: 2 Col: 124 Printer attr: 0
Field length : 8 Print format: Left justified
String Value [LBS USED]

Row: 3 Col: 110 Printer attr: 0
Field length : 110 Print format: Left justified
String Value [

Row: 3 Col: 111 Printer attr: 0
Field length : 22 Print format: Left justified
String Value [

MAIN REPORT BODY

Printer attribute for this block: 6
Line spacing for this block : 1
Number of lines following block : 0
Blank data lines WILL NOT be printed
This block WILL NOT cause a page break

Row: 1 Col: 1 Printer attr: 0
Field length : 8 Print format: Left justified
Extracted from: PQUA.RECEIVED

Row: 1 Col: 11 Printer attr: 0
Field length : 6 Print format: Left justified
Extracted from: PQUA.BER

Row: 1 Col: 19 Printer attr: 0
Field length : 6 Print format: Left justified
Extracted from: HP.NUMBER

Row: 1 Col: 27 Printer attr: 0
Field length : 40 Print format: Left justified
Extracted from: HP.NAME

Row: 1 Col: 69 Printer attr: 0
Field length : 5 Print format: General format
Extracted from: PQUA.REQUEST

Row: 1 Col: 76 Printer attr: 0
Field length : 15 Print format: Left justified
Extracted from: EMPL.LAST_NAME

Row: 1 Col: 77 Printer attr: 0
 Field length : 2 Print format: Left justified
 Calculated from: IF PQUA.USED<>0 THEN ' , '

Row: 1 Col: 79 Printer attr: 0
 Field length : 15 Print format: Left justified
 Extracted from: EMPL.FIRST_NAME

Row: 1 Col: 112 Printer attr: 0
 Field length : 9.4 Print format: General format
 Extracted from: PQUA.D

Row: 1 Col: 123 Printer attr: 0
 Field length : 9.4 Print format: General format
 Extracted from: PQUA.USED

SUB REPORT SUMMARY #2

Printer attribute for this block: 6
 Line spacing for this block : 1
 Number of lines preceding block : 0
 Blank data lines WILL NOT be printed

Row: 1 Col: 23 Printer attr: 0
 Field length : 110 Print format: Left justified
 String Value [

Row: 2 Col: 86 Printer attr: 0
 Field length : 23 Print format: Left justified
 String Value [CURRENT CONT QTY/UNIT:]

Row: 2 Col: 109 Printer attr: 0
 Field length : 8 Print format: General format
 The last contents of CONTA._CONTAINER

Row: 2 Col: 118 Printer attr: 0
 Field length : 1 Print format: Left justified
 The last contents of CONTA.ENTERED

Row: 2 Col: 121 Printer attr: 0
 Field length : 10 Print format: General format
 The last contents of CONTA.QTY#EQ

Row: 2 Col: 132 Printer attr: 0
 Field length : 1 Print format: Left justified
 String Value [P]

Row: 3 Col: 86 Printer attr: 0
 Field length : 1 Print format: Left justified
 String Value []

PAGE SUMMARY

There are no entries defined for this block

REPORT SUMMARY

There are no entries defined for this block

Memory variable usage summary

```
%
Report Header
%0:=%0 + 1
%0
```

String memory variable usage summary

```
Selection Criteria
SMV(1,1):=""
SMV(2,6):=CONTA.BER
```

CONTA.TRI Version # 31 Date: 01/13/92

PROD ON HAND
MSDS INVENTORY: PRODUCTS ON HAND

Generated from data contained in:

CONTA CODATA PQUA HP

Application Relationships

CODATA.KEY is found from data in SHV(1,1) -- REL TYPE - 2
PQUA.BER is found from data in CONTA.BER -- REL TYPE - 1
HP.NUMBER is found from data in CONTA.NER -- REL TYPE - 2

Change security: 0 Generate security: 0

Last user to modify this report: T

Number of lines per page: 60
Number of lines to use : 60
Line length of printer : 132
Width of left margin : 0
Spacing will be used to find the top of form

Attribute to initialize printer for this report: 0
Negative numbers will be printed preceded by a dash -

Any temporary sort files will be placed on TEAM-UP drive: C
Destination of this report: -
This report WILL be abortable.

Report Order

Name	Length	Order
CONTA.NER	6	A
CONTA.BER	6	A
PQUA.RECEIVED	8	A
Total	20	

Report will use index on CONTA.NER
Start/Stop prompts on index will NOT be utilized.

Selection Criteria

Records to include must match the following criteria

Field length : 32 Print format: Left justified
String Value [MSDS INVENTORY: PRODUCTS ON HAND]

PAGE HEADER

Printer attribute for this block: 6
Line spacing for this block : 1
Number of lines following block : 0
Blank data lines WILL NOT be printed

Row: 1 Col: 1 Printer attr: 0
Field length : 5 Print format: Left justified
String Value [HPID#]

Row: 1 Col: 9 Printer attr: 0
Field length : 11 Print format: Left justified
String Value [DESCRIPTION]

Row: 1 Col: 70 Printer attr: 0
Field length : 5 Print format: Left justified
String Value [CONT#]

Row: 1 Col: 79 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [CONT]

Row: 1 Col: 102 Printer attr: 0
Field length : 8 Print format: Left justified
String Value [QUANTITY]

Row: 1 Col: 113 Printer attr: 0
Field length : 8 Print format: Left justified
String Value [QUANTITY]

Row: 1 Col: 129 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [DATE]

Row: 2 Col: 79 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [STATUS]

Row: 2 Col: 102 Printer attr: 0
Field length : 8 Print format: Left justified
String Value [RECEIVED]

Row: 2 Col: 113 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [USED]

Row: 2 Col: 124 Printer attr: 0
Field length : 9 Print format: Left justified
String Value [RCVD/USED]

Row: 3 Col: 1 Printer attr: 0
Field length : 110 Print format: Left justified
String Value [-----]

1 - SHV(1,1):='''
EQ

2 - PQUA.RECEIVED
LE
ENTER STOP DATE:

Where 2 is TRUE

Update Printed Record

No records will be updated by this report

REPORT HEADER

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : 2
Blank data lines WILL be printed
The REPORT HEADER will be printed at the top of every page

Row: 1 Col: 1 Printer attr: 0
Field length : 25 Print format: Left justified
Extracted from: CODATA.COMPANY

Row: 1 Col: 59 Printer attr: 0
Field length : 13 Print format: Left justified
String Value [REPORT DATE:]

Row: 1 Col: 72 Printer attr: 0
Field length : 8 Print format: Left justified
Current system date

Row: 2 Col: 1 Printer attr: 0
Field length : 34 Print format: Left justified
String Value [HAZARDOUS MATERIAL TRACKING SYSTEM]

Row: 2 Col: 63 Printer attr: 0
Field length : 11 Print format: Left justified
String Value [REPORT#: 63]

Row: 3 Col: 63 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: 40+40 + 1

Row: 3 Col: 65 Printer attr: 0
Field length : 7 Print format: Left justified
String Value [PAGE#:]

Row: 3 Col: 72 Printer attr: 0
Field length : 3 Print format: General format
Calculated from: 40

Row: 5 Col: 24 Printer attr: 0

Row: 3 Col: 111 Printer attr: 0
Field length : 22 Print format: Left justified
String Value [-----]

SUB REPORT HEADER #1 which breaks on change of CONTA.NER

Printer attribute for this block: 6
Line spacing for this block : 1
Number of lines following block : -
Blank data lines WILL NOT be printed
This block WILL NOT cause a page break

Row: 1 Col: 1 Printer attr: 0
Field length : 6 Print format: Left justified
Extracted from: CONTA.NER

Row: 1 Col: 9 Printer attr: 0
Field length : 40 Print format: Left justified
Extracted from: HP.NAME

MAIN REPORT BODY

Printer attribute for this block: 6
Line spacing for this block : 1
Number of lines following block : 0
Blank data lines WILL NOT be printed
This block WILL NOT cause a page break

Row: 1 Col: 70 Printer attr: 0
Field length : 6 Print format: Left justified
Extracted from: PQUA.BER

Row: 1 Col: 79 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CONTA.TYPE

Row: 1 Col: 83 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CONTA._TYPE

Row: 1 Col: 87 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CONTA.URE_TYPE

Row: 1 Col: 100 Printer attr: 0
Field length : 9.4 Print format: General format
Extracted from: PQUA.D

Row: 1 Col: 111 Printer attr: 0
Field length : 9.4 Print format: General format
Extracted from: PQUA.USED

Row: 1 Col: 125 Printer attr: 0

Field length : 8 Print format: Left justified
Extracted from: PQUA.RECEIVED

Selection Criteria
SMV(1,1):=***

SUB REPORT SUMMARY #1

Printer attribute for this block: 6
Line spacing for this block : 1
Number of lines preceding block : 0
Blank data lines WILL NOT be printed

Row: 1 Col: 23 Printer attr: 0
Field length : 110 Print format: Left justified
String Value [

Row: 2 Col: 93 Printer attr: 0
Field length : 30 Print format: Left justified
String Value [PRODUCT TOTAL POUNDS ON HAND:]

Row: 2 Col: 123 Printer attr: 0
Field length : 10 Print format: General format
Summation of values in CONTA.QTY#EQ

Row: 3 Col: 31 Printer attr: 0
Field length : 1 Print format: Left justified
String Value []

PAGE SUMMARY

There are no entries defined for this block

REPORT SUMMARY

There are no entries defined for this block

Memory variable usage summary

%0
Report Header
%0:-%0 + 1
%0

String memory variable usage summary

ROUTINE VOC EHS
ROUTINE VOC EMISSIONS BY AREA AND DEPARTMENT]

Generated from data contained in:

POUA AREA UNIT	CODATA HP	CONTA HPMC	DEPT MCCAT

Application Relationships

CODATA.KEY is found from data in SMV(1,1) -- REL TYPE = 2
 CONTA.BER is found from data in PQUA.BER -- REL TYPE = 2
 DEPT.R is found from data in SMV(2,4) -- REL TYPE = 2
 AREA.NUMBER is found from data in PQUA.ID NUMBER -- REL TYPE = 2
 HP.NUMBER is found from data in SMV(6,6) -- REL TYPE = 2
 HPMC.NUMBER is found from data in PQUA.NUMBER -- REL TYPE = 2
 MCCAT.CATEGORY is found from data in SMV(20,4) -- REL TYPE = 2
 UNIT.ODE is found from data in SMV(30,1) -- REL TYPE = 2

Change security: 0 Generate security: 0

Last user to modify this report: T

Number of lines per page: 60
 Number of lines to use : 60
 Line length of printer : 80
 Width of left margin : 0
 Spacing will be used to find the top of form

Attribute to initialize printer for this report: 0
 Negative numbers will be printed preceded by a dash -

Any temporary sort files will be placed on TEAM-UP drive: C
 Destination of this report: -
 This report WILL be abortable.

Report Order

Name	Length	Order
POUA.RECEIVED	0	A
POUA.NUMBER	6	A
CONTA.DEPT	4	A
POUA.ID NUMBER	4	A
POUA.RECEIVED	8	A
Total	22	

Report will use index on PQUA.RECEIVED
 Prompt for start key: ENTER START DATE:
 Prompt for stop key: ENTER STOP DATE:

Selection Criteria

Records to include must match the following criteria

- 1 - SMV(1,1):='*' EQ
- 2 - SMV(2,4):=CONTA.DEPT EQ
- 3 - SMV(6,6):=CONTA.NER EQ
- 4 - SMV(20,4):=HPMC.CATEGORY EQ
- 5 - HP.VOC#EQ NE
- 6 - SMV(30,1):='R' EQ
- 7 - PQUA.COUNT NE 0

Where 5 & 7 is TRUE

Update Printed Record

No records will be updated by this report

REPORT HEADER

Printer attribute for this block: 0
 Line spacing for this block : 1
 Number of lines following block : 2
 Blank data lines WILL be printed
 The REPORT HEADER will be printed at the top of every page

Row: 1 Col: 1	Printer attr: 0
Field length : 25	Print format: Left justified
Extracted from: CODATA.COMPANY	
Row: 1 Col: 59	Printer attr: 0
Field length : 13	Print format: Left justified
String Value [REPORT DATE:]	

Row: 1 Col: 72	Printer attr: 0
Field length : 8	Print format: Left justified
String Value [Current system date]	
Row: 2 Col: 1	Printer attr: 0
Field length : 34	Print format: Left justified
String Value [HAZARDOUS MATERIAL TRACKING SYSTEM]	
Row: 2 Col: 63	Printer attr: 0
Field length : 11	Print format: Left justified
String Value [REPORT#: 64]	
Row: 3 Col: 63	Printer attr: 12
Field length : 1	Print format: General format
Calculated from: 40=40 + 1	
Row: 3 Col: 65	Printer attr: 0
Field length : 7	Print format: Left justified
String Value [PAGE#:]	
Row: 3 Col: 72	Printer attr: 0
Field length : 3	Print format: General format
Calculated from: 40	
Row: 5 Col: 19	Printer attr: 0
Field length : 44	Print format: Left justified
String Value [ROUTINE VOC EMISSIONS BY DEPARTMENT AND AREA]	
Row: 6 Col: 27	Printer attr: 0
Field length : 6	Print format: Left justified
String Value [FROM:]	
Row: 6 Col: 33	Printer attr: 0
Field length : 8	Print format: Left justified
Calculated from: P119	
Row: 6 Col: 42	Printer attr: 0
Field length : 2	Print format: Left justified
String Value [TO]	
Row: 6 Col: 45	Printer attr: 0
Field length : 8	Print format: Left justified
Calculated from: P120	

PAGE HEADER

There are no entries defined for this block

SUB REPORT HEADER #2 which breaks on change of PQUA.NUMBER

Printer attribute for this block: 0
 Line spacing for this block : 1
 Number of lines following block : 0
 Blank data lines WILL NOT be printed
 This block WILL cause a page break

Row: 2 Col: 1	Printer attr: 0
Field length : 7	Print format: Left justified
String Value [HPID#:]	
Row: 2 Col: 8	Printer attr: 0
Field length : 6	Print format: Left justified
Extracted from: HP.NUMBER	
Row: 2 Col: 16	Printer attr: 0
Field length : 12	Print format: Left justified
String Value [TRADE NAME:]	
Row: 2 Col: 28	Printer attr: 0
Field length : 40	Print format: Left justified
Extracted from: HP.NAME	
Row: 3 Col: 1	Printer attr: 0
Field length : 14	Print format: Left justified
String Value [VOCs LBS/GAL:]	
Row: 3 Col: 15	Printer attr: 0
Field length : 9.4	Print format: General format
Extracted from: HP.VOC_ANT	
Row: 3 Col: 25	Printer attr: 0
Field length : 11	Print format: Left justified
Calculated from: IF HP.UNITS='G' THEN 'GRAMS/LITER' ELSE 'LBS/GAL'	
Row: 4 Col: 1	Printer attr: 0
Field length : 10	Print format: Left justified
String Value [CATEGORY:]	
Row: 4 Col: 11	Printer attr: 0
Field length : 50	Print format: Left justified
Extracted from: MCCAT.ION	
Row: 5 Col: 1	Printer attr: 0
Field length : 33	Print format: Left justified
String Value [MARINE COATING RULE GRAMS/LITER:]	
Row: 5 Col: 34	Printer attr: 0
Field length : 4	Print format: General format
Extracted from: MCCAT.89	
Row: 6 Col: 1	Printer attr: 0
Field length : 67	Print format: Left justified
String Value [

SUB REPORT HEADER #3 which breaks on change of CONTA.DEPT

Printer attribute for this block: 0
 Line spacing for this block : 1
 Number of lines following block : 0
 Blank data lines WILL NOT be printed
 This block WILL NOT cause a page break

Row: 2 Col: 3 Printer attr: 0
Field length: 12 Print format: Left justified
String Value [DEPARTMENT:]

Row: 2 Col: 15 Printer attr: 0
Field length: 4 Print format: Left justified
Extracted from: CONTA.DEPT

Row: 2 Col: 21 Printer attr: 0
Field length: 15 Print format: Left justified
Extracted from: DEPT.NAME

Row: 2 Col: 37 Printer attr: 12
Field length: 1 Print format: General format
Calculated from: %2=-0

Row: 3 Col: 3 Printer attr: 0
Field length: 33 Print format: Left justified
String Value [-----]

SUB REPORT HEADER #4 which breaks on change of PQUA.ID_NUMBER

Printer attribute for this block: 0
Line spacing for this block: 1
Number of lines following block: 0
Blank data lines WILL be printed
This block WILL NOT cause a page break

Row: 2 Col: 5 Printer attr: 0
Field length: 6 Print format: Left justified
String Value [AREA:]

Row: 2 Col: 11 Printer attr: 0
Field length: 4 Print format: Left justified
Extracted from: PQUA.ID_NUMBER

Row: 2 Col: 17 Printer attr: 0
Field length: 40 Print format: Left justified
Extracted from: AREA.DESCRPTION

Row: 2 Col: 59 Printer attr: 12
Field length: 1 Print format: General format
Calculated from: %1=-0

Row: 3 Col: 5 Printer attr: 0
Field length: 52 Print format: Left justified
String Value [-----]

Row: 4 Col: 7 Printer attr: 0
Field length: 5 Print format: Left justified
String Value [CONT#]

Row: 4 Col: 60 Printer attr: 0
Field length: 4 Print format: Left justified
String Value [DATE]

Row: 4 Col: 71 Printer attr: 0

Field length: 9 Print format: Left justified
String Value [VOCS(LBS)]

Row: 5 Col: 7 Printer attr: 0
Field length: 73 Print format: Left justified
String Value [-----]

MAIN REPORT BODY

Printer attribute for this block: 0
Line spacing for this block: 1
Number of lines following block: 0
Blank data lines WILL be printed
This block WILL NOT cause a page break

Row: 1 Col: 7 Printer attr: 0
Field length: 6 Print format: Left justified
Extracted from: PQUA.BER

Row: 1 Col: 60 Printer attr: 0
Field length: 8 Print format: Left justified
Extracted from: PQUA.RECEIVED

Row: 1 Col: 70 Printer attr: 0
Field length: 9.4 Print format: General format
Extracted from: PQUA.COUNT

Row: 1 Col: 81 Printer attr: 12
Field length: 1 Print format: General format
Calculated from: %1=-%1 + PQUA.COUNT

Row: 1 Col: 83 Printer attr: 12
Field length: 1 Print format: General format
Calculated from: %2=-%2 + PQUA.COUNT

SUB REPORT SUMMARY #3

Printer attribute for this block: 0
Line spacing for this block: 1
Number of lines preceding block: 1
Blank data lines WILL NOT be printed

Row: 1 Col: 38 Printer attr: 0
Field length: 32 Print format: Left justified
String Value [DEPT TOTAL VOC EMISSIONS (LBS):]

Row: 1 Col: 70 Printer attr: 0
Field length: 10 Print format: General format
Calculated from: %2

Row: 2 Col: 36 Printer attr: 0
Field length: 34 Print format: Left justified
String Value [DEPT TOTAL VOC EMISSIONS (GRAMS):]

Row: 2 Col: 70 Printer attr: 0
Field length: 10 Print format: General format
Calculated from: %2/UNIT.POUNDS

SUB REPORT SUMMARY #4

Printer attribute for this block: 0
Line spacing for this block: 1
Number of lines preceding block: 0
Blank data lines WILL be printed

Row: 1 Col: 38 Printer attr: 0
Field length: 42 Print format: Left justified
String Value [-----]

Row: 2 Col: 38 Printer attr: 0
Field length: 32 Print format: Left justified
String Value [AREA TOTAL VOC EMISSIONS (LBS):]

Row: 2 Col: 70 Printer attr: 0
Field length: 10 Print format: General format
Calculated from: %1

Row: 3 Col: 36 Printer attr: 0
Field length: 34 Print format: Left justified
String Value [AREA TOTAL VOC EMISSIONS (GRAMS):]

Row: 3 Col: 70 Printer attr: 0
Field length: 10 Print format: General format
Calculated from: %1/UNIT.POUNDS

PAGE SUMMARY

There are no entries defined for this block

REPORT SUMMARY

Printer attribute for this block: 0
Line spacing for this block: 1
Number of lines preceding block: 0
Blank data lines WILL be printed

Row: 1 Col: 1 Printer attr: 12
Field length: 1 Print format: Left justified
Calculated from: SMV(20,4):='';SMV(30,1):=''

Memory variable usage summary

%0
Report Header
%0=%0 + 1
%0

%1
Sub-report Header #4
%1:=0
Report Body
%1=%1 + PQUA.COUNT
Sub-report Summary #4
%1
%1/UNIT.POUNDS

%2
Sub-report Header #3
%2:=0
Report Body
%2=%2 + PQUA.COUNT
Sub-report Summary #3
%2
%2/UNIT.POUNDS

String memory variable usage summary

Selection Criteria
SMV(1,1):=''
SMV(2,4):=-CONTA.DEPT
SMV(6,6):=-CONTA.NER
SMV(20,4):=-HPMC.ATEGORY
SMV(30,1):='R'

Report Summary
SMV(20,4):='';SMV(30,1):=''

TIER II REPORT
TIER II REPORT (MAKES USE OF TIER II SUBTTL REPORT)

Generated from data contained in:

HPCHEM	POQA	CODATA	CHEM
CONTA	AREA	TPQ302	HP

Application Relationships

POQA.NUMBER is found from data in HPCHEM.NUMBER -- REL TYPE = 0
 CODATA.KEY is found from data in SHV(100,1) -- REL TYPE = 2
 CHEM.ER is found from data in HPCHEM.ER -- REL TYPE = 2
 CONTA.NER is found from data in HPCHEM.NUMBER -- REL TYPE = 0
 AREA.NUMBER is found from data in SHV(101,4) -- REL TYPE = 2
 TPQ302.ER is found from data in HPCHEM.ER -- REL TYPE = 2
 HP.NUMBER is found from data in HPCHEM.NUMBER -- REL TYPE = 2

Change security: 0 Generate security: 0

Last user to modify this report: T

Number of lines per page: 60
 Number of lines to use : 60
 Line length of printer : 132
 Width of left margin : 0
 Spacing will be used to find the top of form

Attribute to initialize printer for this report: 0
 Negative numbers will be printed preceded by a dash -

Any temporary sort files will be placed on TEAM-UP drive: C
 Destination of this report: P
 This report WILL be abortable.

Report Order

Name	Length	Order
HPCHEM.ER	6	A
CONTA.TYPE	1	A
CONTA. TYPE	1	A
CONTA.URE TYPE	1	A
CONTA.THIS_CONTAINER	4	A
Total	13	

Report will use index on HPCHEM.ER
 Default value for start key: SHV(304,6)

Default value for stop key: START

Selection Criteria

Records to include must match the following criteria

- 1 - SHV(201,8)
LE
POQA.RECEIVED
- 2 - SHV(209,8)
GE
POQA.RECEIVED
- 3 - SHV(100,1):=""
EQ
- 4 - SHV(101,4):=CONTA.THIS_CONTAINER
EQ
- 5 - POQA.PLANT
EQ
SHV(300,4)

Where 1 & 2 & 5 is TRUE

Update Printed Record

No records will be updated by this report

REPORT HEADER

Printer attribute for this block: 0
 Line spacing for this block : 1
 Number of lines following block : 2
 Blank data lines WILL be printed
 The REPORT HEADER will be printed on the FIRST page only

Row: 1 Col: 1 Printer attr: 0
 Field length : 53 Print format: Left justified
 String Value [TIER TWO - EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY]

Row: 1 Col: 60 Printer attr: 0
 Field length : 13 Print format: Left justified
 String Value [REPORT DATE:]

Row: 1 Col: 73 Printer attr: 0
 Field length : 8 Print format: Left justified
 Current system date

Row: 2 Col: 1 Printer attr: 0
 Field length : 32 Print format: Left justified
 String Value [SPECIFIC INFORMATION BY CHEMICAL]

Row: 2 Col: 64 Printer attr: 0
 Field length : 9 Print format: Left justified
 String Value [REPORT#:]

Row: 2 Col: 73 Printer attr: 0
 Field length : 2 Print format: Left justified
 String Value [65]

Row: 3 Col: 1 Printer attr: 0
 Field length : 18 Print format: Left justified
 String Value [REPORTING PERIOD:]

Row: 3 Col: 19 Printer attr: 0
 Field length : 8 Print format: General format
 Calculated from: SHV(201,8)

Row: 3 Col: 28 Printer attr: 0
 Field length : 2 Print format: Left justified
 String Value [70]

Row: 3 Col: 31 Printer attr: 0
 Field length : 8 Print format: General format
 Calculated from: SHV(209,8)

Row: 5 Col: 1 Printer attr: 0
 Field length : 23 Print format: Left justified
 String Value [FACILITY IDENTIFICATION]

Row: 5 Col: 49 Printer attr: 0
 Field length : 20 Print format: Left justified
 String Value [OWNER IDENTIFICATION]

Row: 7 Col: 1 Printer attr: 0
 Field length : 25 Print format: Left justified
 Extracted from: CODATA.COMPANY

Row: 7 Col: 49 Printer attr: 0
 Field length : 30 Print format: Left justified
 Extracted from: CODATA.OPERATOR

Row: 8 Col: 1 Printer attr: 0
 Field length : 20 Print format: Left justified
 Extracted from: CODATA.1

Row: 8 Col: 49 Printer attr: 0
 Field length : 20 Print format: Left justified
 Extracted from: CODATA.6

Row: 9 Col: 1 Printer attr: 0
 Field length : 20 Print format: Left justified
 Extracted from: CODATA.2

Row: 9 Col: 49 Printer attr: 0
 Field length : 20 Print format: Left justified
 Extracted from: CODATA.7

Row: 10 Col: 1 Printer attr: 0
 Field length : 15 Print format: Left justified
 Extracted from: CODATA.3

Row: 10 Col: 2 Printer attr: 0
 Field length : 2 Print format: Left justified
 String Value [,]

Row: 10 Col: 4 Printer attr: 0
 Field length : 2 Print format: Left justified
 Extracted from: CODATA.4

Row: 10 Col: 6 Printer attr: 0
 Field length : 1 Print format: Left justified
 String Value []

Row: 10 Col: 7 Printer attr: 0
 Field length : 10 Print format: Left justified
 Extracted from: CODATA.5

Row: 10 Col: 49 Printer attr: 0
 Field length : 15 Print format: Left justified
 Extracted from: CODATA.8

Row: 10 Col: 50 Printer attr: 0
 Field length : 2 Print format: Left justified
 String Value [,]

Row: 10 Col: 52 Printer attr: 0
 Field length : 2 Print format: Left justified
 Extracted from: CODATA.9

Row: 10 Col: 54 Printer attr: 0
 Field length : 1 Print format: Left justified
 String Value []

Row: 10 Col: 55 Printer attr: 0
 Field length : 10 Print format: Left justified
 Extracted from: CODATA.A

Row: 12 Col: 1 Printer attr: 0
 Field length : 10 Print format: Left justified
 String Value [SIC CODE:]

Row: 12 Col: 11 Printer attr: 0
 Field length : 4 Print format: Left justified
 Extracted from: CODATA.CODE

Row: 12 Col: 17 Printer attr: 0
 Field length : 19 Print format: Left justified
 String Value [DUN & BRAD NUMBER:]

Row: 12 Col: 36 Printer attr: 0
 Field length : 11 Print format: Left justified
 Extracted from: CODATA.R

Row: 14 Col: 1 Printer attr: 0
 Field length : 17 Print format: Left justified
 String Value [EMERGENCY CONTACT]

Row: 16 Col: 1 Printer attr: 0
 Field length : 23 Print format: Left justified
 Extracted from: CODATA.B

Row: 16 Col: 26 Printer attr: 0
Field length : 15 Print format: Left justified
Extracted from: CODATA.C

Row: 16 Col: 43 Printer attr: 0
Field length : 12 Print format: Left justified
Extracted from: CODATA.D

Row: 16 Col: 57 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [24HR:]

Row: 16 Col: 63 Printer attr: 0
Field length : 12 Print format: Left justified
Extracted from: CODATA.E

Row: 18 Col: 1 Printer attr: 0
Field length : 23 Print format: Left justified
Extracted from: CODATA.F

Row: 18 Col: 26 Printer attr: 0
Field length : 15 Print format: Left justified
Extracted from: CODATA.G

Row: 18 Col: 43 Printer attr: 0
Field length : 12 Print format: Left justified
Extracted from: CODATA.H

Row: 18 Col: 57 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [24HR:]

Row: 18 Col: 63 Printer attr: 0
Field length : 12 Print format: Left justified
Extracted from: CODATA.I

Row: 20 Col: 1 Printer attr: 0
Field length : 18 Print format: Left justified
String Value [PLANT OR SITE ID:]

Row: 20 Col: 19 Printer attr: 0
Field length : 4 Print format: Left justified
Extracted from: PQUA.PLANT

PAGE HEADER

There are no entries defined for this block

SUB REPORT HEADER #1 which breaks on change of HPCHEM.ER

Printer attribute for this block : 6
Line spacing for this block : 1
Number of lines following block : -
Blank data lines WILL NOT be printed
This block WILL NOT cause a page break

Row: 2 Col: 1 Printer attr: 0
Field length : 20 Print format: Left justified
String Value [CHEMICAL DESCRIPTION]

Row: 2 Col: 24 Printer attr: 0
Field length : 14 Print format: Left justified
String Value [TRADE SECRET:]

Row: 2 Col: 38 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: HP.SECRET

Row: 3 Col: 1 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [CAS:]

Row: 3 Col: 7 Printer attr: 0
Field length : 9 Print format: Left justified
Extracted from: CHEM.NUMBER

Row: 3 Col: 18 Printer attr: 0
Field length : 15 Print format: Left justified
String Value [CHEMICAL NAME:]

Row: 3 Col: 33 Printer attr: 0
Field length : 80 Print format: Left justified
Extracted from: CHEM.NAME

Row: 4 Col: 1 Printer attr: 0
Field length : 5 Print format: Left justified
String Value [PURE:]

Row: 4 Col: 7 Printer attr: 0
Field length : 1 Print format: Left justified
Calculated from: IF -NULL(CHEM.PURE) THEN 'X'

Row: 4 Col: 10 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [MIX:]

Row: 4 Col: 15 Printer attr: 0
Field length : 1 Print format: Left justified
Calculated from: IF -NULL(CHEM.MIX) THEN 'X'

Row: 4 Col: 18 Printer attr: 0
Field length : 7 Print format: Left justified
String Value [SOLID:]

Row: 4 Col: 25 Printer attr: 0
Field length : 1 Print format: Left justified
Calculated from: IF -NULL(CHEM.SOLID) THEN 'X'

Row: 4 Col: 28 Printer attr: 0
Field length : 8 Print format: Left justified
String Value [LIQUID:]

Row: 4 Col: 36 Printer attr: 0
Field length : 1 Print format: Left justified
Calculated from: IF -NULL(CHEM.LIQUID) THEN 'X'

Row: 4 Col: 39 Printer attr: 0
Field length : 5 Print format: Left justified
String Value [GAS:]

Row: 4 Col: 44 Printer attr: 0
Field length : 1 Print format: Left justified
Calculated from: IF -NULL(CHEM.GAS) THEN 'X'

Row: 6 Col: 1 Printer attr: 0
Field length : 27 Print format: Left justified
String Value [PHYSICAL AND HEALTH HAZARDS]

Row: 7 Col: 1 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [FIRE:]

Row: 7 Col: 7 Printer attr: 0
Field length : 1 Print format: Left justified
Calculated from: IF -NULL(CHEM.FIRE_HAZARD) THEN 'X'

Row: 7 Col: 10 Printer attr: 0
Field length : 24 Print format: Left justified
String Value [SUDDEN REL OF PRESSURE:]

Row: 7 Col: 34 Printer attr: 0
Field length : 1 Print format: Left justified
Calculated from: IF -NULL(CHEM.PRESSURE) THEN 'X'

Row: 7 Col: 37 Printer attr: 0
Field length : 12 Print format: Left justified
String Value [REACTIVITY:]

Row: 7 Col: 49 Printer attr: 0
Field length : 1 Print format: Left justified
Calculated from: IF -NULL(CHEM.E) THEN 'X'

Row: 7 Col: 52 Printer attr: 0
Field length : 19 Print format: Left justified
String Value [IMMEDIATE (ACUTE):]

Row: 7 Col: 71 Printer attr: 0
Field length : 1 Print format: Left justified
Calculated from: IF -NULL(CHEM.ARD) THEN 'X'

Row: 7 Col: 74 Printer attr: 0
Field length : 19 Print format: Left justified
String Value [DELAYED (CHRONIC):]

Row: 7 Col: 93 Printer attr: 0
Field length : 1 Print format: Left justified
Calculated from: IF -NULL(CHEM.AZARD) THEN 'X'

Row: 9 Col: 1 Printer attr: 0
Field length : 20 Print format: Left justified
String Value [INVENTORY (LOW/HIGH):]

Row: 11 Col: 1 Printer attr: 0
Field length : 18 Print format: Left justified
String Value [MAX DAILY AMOUNT:]

Row: 11 Col: 19 Printer attr: 0
Field length : 8.1 Print format: General format
Extracted from: CHEM.MAXLOW

Row: 11 Col: 29 Printer attr: 0
Field length : 19 Print format: Left justified
String Value [AVG. DAILY AMOUNT:]

Row: 11 Col: 48 Printer attr: 0
Field length : 8.1 Print format: General format
Extracted from: CHEM.MAXAVGLOW

Row: 11 Col: 58 Printer attr: 0
Field length : 18 Print format: Left justified
String Value [NO. DAYS ON-SITE:]

Row: 11 Col: 76 Printer attr: 0
Field length : 8.1 Print format: General format
Extracted from: CHEM.SITE

Row: 12 Col: 19 Printer attr: 0
Field length : 8.1 Print format: General format
Extracted from: CHEM.MAXHIGH

Row: 12 Col: 48 Printer attr: 0
Field length : 8.1 Print format: General format
Extracted from: CHEM.MAXAVGHI

Row: 14 Col: 1 Printer attr: 0
Field length : 35 Print format: Left justified
Calculated from: IF (CHEM.MAXHIGH > TPQ302.PART)&(-NULL(TPQ302.PART)) THEN 'TPQ

Row: 14 Col: 37 Printer attr: 0
Field length : 5 Print format: General format
Calculated from: IF (CHEM.MAXHIGH > TPQ302.PART)&(-NULL(TPQ302.PART)) THEN TPQ302

Row: 15 Col: 1 Printer attr: 0
Field length : 35 Print format: Left justified
Calculated from: IF (CHEM.MAXLOW > TPQ302.PART)&(-NULL(TPQ302.PART)) THEN 'TPQ B

Row: 15 Col: 37 Printer attr: 0
Field length : 5 Print format: General format
Calculated from: IF (CHEM.MAXLOW > TPQ302.PART)&(-NULL(TPQ302.PART)) THEN TPQ302

Row: 17 Col: 6 Printer attr: 0
Field length : 29 Print format: Left justified
String Value [STORAGE CODES AND LOCATIONS:]

MAIN REPORT BODY

There are no entries defined for this block

SUB REPORT SUMMARY #5

Printer attribute for this block: 6
Line spacing for this block : 1
Number of lines preceding block : 0
Blank data lines WILL NOT be printed

Row: 1 Col: 38 Printer attr: 0
Field length : 1 Print format: Left justified
The last contents of CONTA.TYPE

Row: 1 Col: 40 Printer attr: 0
Field length : 1 Print format: Left justified
The last contents of CONTA._TYPE

Row: 1 Col: 42 Printer attr: 0
Field length : 1 Print format: Left justified
The last contents of CONTA.URE_TYPE

Row: 1 Col: 45 Printer attr: 0
Field length : 40 Print format: Left justified
The last contents of AREA.DESCRPTION

PAGE SUMMARY

There are no entries defined for this block

REPORT SUMMARY

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines preceding block : -
Blank data lines WILL NOT be printed

Row: 1 Col: 1 Printer attr: 12
Field length : 1 Print format: Left justified
Calculated from: SHV(100,10):-'';SHV(201,16):-'';SHV(300,10):-'';SHV(1,40):-''

String memory variable usage summary

Selection Criteria
SHV(201,8)
SHV(209,8)
SHV(100,1):-''
SHV(101,4):-CONTA.THIS_CONTAINER
SHV(300,4)

Report Header
SHV(201,8)
SHV(209,8)

Report Summary

SHV(100,10):-'';SHV(201,16):-'';SHV(300,10):-'';SHV(1,40):-''

TIERSUBTTL1207
was changed to account for max in last chemical summary 01/15/92 12:07pm

Generated from data contained in:

HPCHEM PQUA

Application Relationships

PQUA.NUMBER is found from data in HPCHEM.NUMBER -- REL TYPE = 0

Change security: 0 Generate security: 0

Last user to modify this report: SUPER

Number of lines per page: 66
Number of lines to use : 66
Line length of printer : 132
Width of left margin : 0
Spacing will be used to find the top of form

Attribute to initialize printer for this report: 0
Negative numbers will be printed preceded by a dash -

Any temporary sort files will be placed on TEAM-UP drive: C
Destination of this report: F C:\SUBTTL.PRN
This report WILL be abortable.

Report Order

Name	Length	Order
HPCHEM.ER	6	A
PQUA.RECEIVED	8	A
PQUA.D	10	D
Total	24	

Report will use index on HPCHEM.ER
Prompt for start key: ENTER CHEMICAL ID:
Default value for stop key: START

Selection Criteria

Records to include must match the following criteria

1 - ?ENTER START DATE (MM/DD/YY):

MAIN REPORT BODY

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : 0
Blank data lines WILL NOT be printed
This block WILL NOT cause a page break

Row: 1 Col: 10 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SHV(9,8)) THEN %1=((%26-%27

Row: 1 Col: 20 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SHV(9,8)) THEN %2=((%26-%27

Row: 1 Col: 30 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SHV(9,8)) THEN %3=%1 + %3

Row: 1 Col: 40 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SHV(9,8)) THEN %4=%2 + %4

Row: 1 Col: 71 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SHV(9,8)) & (%3>%5) THEN %5=%4

Row: 1 Col: 80 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SHV(9,8)) & (%4>%6) THEN %6=%4

Row: 1 Col: 98 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: %26=pqua.D

Row: 1 Col: 107 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: %27=pqua.USED

Row: 1 Col: 116 Printer attr: 12
Field length : 1 Print format: Left justified
Extracted from: HPCHEM.NUMBER

Row: 1 Col: 122 Printer attr: 12
Field length : 1 Print format: Left justified
String Value [h]

Row: 1 Col: 124 Printer attr: 12
Field length : 1 Print format: Left justified
Extracted from: HPCHEM.ER

Row: 1 Col: 130 Printer attr: 12
Field length : 1 Print format: Left justified
String Value [c]

SUB REPORT SUMMARY #1

EQ

2 - ?ENTER STOP DATE (MM/DD/YY):

EQ

3 - SHV(1,8):=(DAYS(P11)):SHV(9,8):=DAYS(P12)

EQ

4 - SHV(201,8):=P11:SHV(209,8):=P12

EQ

5 - ?ENTER PLANT OR SITE ID:

EQ

PQUA.PLANT

6 - SHV(300,4):=P13

EQ

SHV(304,6):=P119

7 - PQUA.RECEIVED

LE

P12

Where 1 & 2 & 5 & 7 is TRUE

Update Printed Record

No records will be updated by this report

REPORT HEADER

There are no entries defined for this block

PAGE HEADER

There are no entries defined for this block

SUB REPORT HEADER #1 which breaks on change of HPCHEM.ER

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : -
Blank data lines WILL NOT be printed
This block WILL NOT cause a page break

Row: 1 Col: 1 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: %1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0;%7:=0;%8:=0;%9:=0;%10:=0;%11

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines preceding block : 0
Blank data lines WILL NOT be printed

Row: 1 Col: 1 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: SHV(25,8):=DAYS(P12)

Row: 1 Col: 2 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SHV(9,8)) THEN %9:=(SHV(25,

Row: 1 Col: 3 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SHV(9,8)) THEN %1=((%26-%27

Row: 1 Col: 4 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SHV(9,8)) THEN %2=((%26-%27

Row: 1 Col: 5 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SHV(9,8)) THEN %3=%1 + %3

Row: 1 Col: 6 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SHV(9,8)) THEN %4=%2 + %4

Row: 1 Col: 7 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SHV(9,8)) & (%3>%5) THEN %5=%4

Row: 1 Col: 8 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SHV(9,8)) & (%4>%6) THEN %6=%4

Row: 1 Col: 9 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SHV(9,8)) THEN %7:=(SHV(25

Row: 1 Col: 10 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SHV(9,8)) THEN %8:=(SHV(25

Row: 1 Col: 12 Printer attr: 0
Field length : 8 Print format: General format
Calculated from: %5

Row: 1 Col: 20 Printer attr: 0
Field length : 8 Print format: General format
Calculated from: %6

Row: 1 Col: 29 Printer attr: 0
Field length : 5 Print format: General format
Calculated from: %10:=%7/%9

Row: 1 Col: 35 Printer attr: 0
Field length : 5 Print format: General format

Calculated from: %11:=%18/%9

Row: 1 Col: 41 Printer attr: 12
Field length: 1 Print format: Left justified
Calculated from: SMV(17,16):=

Row: 1 Col: 43 Printer attr: 0
Field length: 5 Print format: General format
Calculated from: %9

Row: 1 Col: 49 Printer attr: 0
Field length: 6 Print format: Left justified
The last contents of HPCHEM.ER

SUB REPORT SUMMARY #2

Printer attribute for this block: 0
Line spacing for this block: 1
Number of lines preceding block: -
Blank data lines WILL NOT be printed

Row: 1 Col: 3 Printer attr: 12
Field length: 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %9:=((DAYS(P

Row: 1 Col: 20 Printer attr: 12
Field length: 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %7:=(((DAYS(P

Row: 1 Col: 30 Printer attr: 12
Field length: 1 Print format: General format
Calculated from: IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %8:=(((DAYS(P

Row: 1 Col: 50 Printer attr: 12
Field length: 1 Print format: General format
Calculated from: %25:=1

Row: 1 Col: 60 Printer attr: 12
Field length: 1 Print format: General format
Calculated from: SMV#(17,8):=DAYS(PQUA.RECEIVED)

PAGE SUMMARY

There are no entries defined for this block

REPORT SUMMARY

Printer attribute for this block: 0
Line spacing for this block: 1
Number of lines preceding block: -
Blank data lines WILL NOT be printed

Row: 1 Col: 1 Printer attr: 12
Field length: 1 Print format: Left justified
Calculated from: SMV(1,40):=

Memory variable usage summary

%1
Sub-report Header #1
%1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0;%7:=0;%8:=0;%9:=0;%10:=0;%11:=0;%12:=0;%
Report Body
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %1:=((%26-%27)*HPCHEM.1)/1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %3:=%1 + %3
Sub-report Summary #1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %1:=((%26-%27)*HPCHEM.1)/1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %3:=%1 + %3

%2
Sub-report Header #1
%1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0;%7:=0;%8:=0;%9:=0;%10:=0;%11:=0;%12:=0;%
Report Body
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %2:=((%26-%27)*HPCHEM.2)/1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %4:=%2 + %4
Sub-report Summary #1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %2:=((%26-%27)*HPCHEM.2)/1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %4:=%2 + %4

%3
Sub-report Header #1
%1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0;%7:=0;%8:=0;%9:=0;%10:=0;%11:=0;%12:=0;%
Report Body
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %3:=%1 + %3
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) & (%3>%5) THEN %5:=%3 ELSE %5
Sub-report Summary #2
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %7:=(((DAYS(PQUA.RECEIVED)
Sub-report Summary #1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %3:=%1 + %3
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) & (%3>%5) THEN %5:=%3 ELSE %5
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %7:=((SMV#(25,8)-SMV#(17,8

%4
Sub-report Header #1
%1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0;%7:=0;%8:=0;%9:=0;%10:=0;%11:=0;%12:=0;%
Report Body
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %4:=%2 + %4
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) & (%4>%6) THEN %6:=%4 ELSE %6
Sub-report Summary #2
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %8:=(((DAYS(PQUA.RECEIVED)
Sub-report Summary #1

IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %4:=%2 + %4
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) & (%4>%6) THEN %6:=%4 ELSE %6
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %8:=((SMV#(25,8)-SMV#(17,8

%5
Sub-report Header #1
%1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0;%7:=0;%8:=0;%9:=0;%10:=0;%11:=0;%12:=0;%
Report Body
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) & (%3>%5) THEN %5:=%3 ELSE %5
Sub-report Summary #1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) & (%3>%5) THEN %5:=%3 ELSE %5
%5

%6
Sub-report Header #1
%1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0;%7:=0;%8:=0;%9:=0;%10:=0;%11:=0;%12:=0;%
Report Body
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) & (%4>%6) THEN %6:=%4 ELSE %6
Sub-report Summary #1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) & (%4>%6) THEN %6:=%4 ELSE %6
%6

%7
Sub-report Header #1
%1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0;%7:=0;%8:=0;%9:=0;%10:=0;%11:=0;%12:=0;%
Sub-report Summary #2
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %7:=(((DAYS(PQUA.RECEIVED)
Sub-report Summary #1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %7:=((SMV#(25,8)-SMV#(17,8
%10:=%7/%9

%8
Sub-report Header #1
%1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0;%7:=0;%8:=0;%9:=0;%10:=0;%11:=0;%12:=0;%
Sub-report Summary #2
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %8:=(((DAYS(PQUA.RECEIVED)
Sub-report Summary #1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %8:=((SMV#(25,8)-SMV#(17,8
%11:=%8/%9

%9
Sub-report Header #1
%1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0;%7:=0;%8:=0;%9:=0;%10:=0;%11:=0;%12:=0;%
Sub-report Summary #2
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %9:=(((DAYS(PQUA.RECEIVED)
Sub-report Summary #1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %9:=(SMV#(25,8) - SMV#(17,
%10:=%7/%9
%11:=%8/%9
%9

%10
Sub-report Header #1
%1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0;%7:=0;%8:=0;%9:=0;%10:=0;%11:=0;%12:=0;%
Sub-report Summary #1
%10:=%7/%9

%11
Sub-report Header #1
%1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0;%7:=0;%8:=0;%9:=0;%10:=0;%11:=0;%12:=0;%
Sub-report Summary #1
%11:=%8/%9

%25
Sub-report Header #1
%1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0;%7:=0;%8:=0;%9:=0;%10:=0;%11:=0;%12:=0;%
Report Body
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %1:=((%26-%27)*HPCHEM.1)/1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %2:=((%26-%27)*HPCHEM.2)/1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %3:=%1 + %3
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %4:=%2 + %4
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) & (%3>%5) THEN %5:=%3 ELSE %5
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) & (%4>%6) THEN %6:=%4 ELSE %6
Sub-report Summary #2
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %9:=(((DAYS(PQUA.RECEIVED)
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %7:=(((DAYS(PQUA.RECEIVED)
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %8:=(((DAYS(PQUA.RECEIVED)
%25:=1
Sub-report Summary #1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %9:=(SMV#(25,8) - SMV#(17,
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %1:=((%26-%27)*HPCHEM.1)/1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %2:=((%26-%27)*HPCHEM.2)/1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %3:=%1 + %3
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %4:=%2 + %4
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) & (%3>%5) THEN %5:=%3 ELSE %5
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) & (%4>%6) THEN %6:=%4 ELSE %6
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %7:=((SMV#(25,8)-SMV#(17,8
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %8:=((SMV#(25,8)-SMV#(17,8

%26
Sub-report Header #1
%1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0;%7:=0;%8:=0;%9:=0;%10:=0;%11:=0;%12:=0;%
Report Body
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %1:=((%26-%27)*HPCHEM.1)/1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %2:=((%26-%27)*HPCHEM.2)/1
%26:=PQUA.D
Sub-report Summary #1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %1:=((%26-%27)*HPCHEM.1)/1
IF (%25<0) & (DAYS(PQUA.RECEIVED) <= SMV#(9,8)) THEN %2:=((%26-%27)*HPCHEM.2)/1


```
SMV(1.40):=''
```

AUDIT.TRI Version # 40 Date: 01/13/92

YARD COMPARE
COMPARISON OF YARD DATA VS WHAT IS IN THE SYSTEM

Generated from data contained in:

AUDIT HP CODATA AREA CONTA UNIT

Application Relationships

CODATA.KEY is found from data in SMV(1,1) -- REL TYPE = 2
CONTA.BER is found from data in AUDIT.CONTAINER# -- REL TYPE = 2
UNIT.OOE is found from data in AUDIT.UNIT -- REL TYPE = 2
HP.NUMBER is found from data in SMV(2,6) -- REL TYPE = 2
AREA.NUMBER is found from data in AUDIT.AREA -- REL TYPE = 2

Change security: 0 Generate security: 0

Last user to modify this report: T

Number of lines per page: 60
Number of lines to use : 60
Line length of printer : 80
Width of left margin : 0
Spacing will be used to find the top of form

Attribute to initialize printer for this report: 0
Negative numbers will be printed preceded by a dash -

Any temporary sort files will be placed on TEAM-UP drive: C
Destination of this report: -
This report WILL be abortable.

Report Order

Name	Length	Order
AUDIT.CONTAINER#	6	A
Total	6	

Report will use index on AUDIT.CONTAINER#
Prompt for start key: ENTER CONTAINER#:
Default value for stop key: START

Selection Criteria

Row: 3 Col: 72 Printer attr: 0
Field length : 3 Print format: General format
Calculated from: #0

Row: 5 Col: 11 Printer attr: 0
Field length : 61 Print format: Left justified
String Value [COMPARISON OF YARD CONTAINERS VS EQUIVALENT SYSTEM CONTAINERS]

Row: 7 Col: 1 Printer attr: 0
Field length : 12 Print format: Left justified
String Value [AUDIT DATE:]

Row: 7 Col: 13 Printer attr: 0
Field length : 8 Print format: Left justified
Extracted from: AUDIT.DATE

PAGE HEADER

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : 0
Blank data lines WILL NOT be printed

Row: 1 Col: 6 Printer attr: 0
Field length : 10 Print format: Left justified
String Value [CONTAINER#]

Row: 1 Col: 19 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [AREA]

Row: 1 Col: 27 Printer attr: 0
Field length : 8 Print format: Left justified
String Value [QUANTITY]

Row: 1 Col: 39 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [UNIT]

Row: 1 Col: 49 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [POUNDS]

Row: 1 Col: 60 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [HMTS]

Row: 1 Col: 74 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [POUNDS]

Row: 2 Col: 48 Printer attr: 0
Field length : 7 Print format: Left justified
String Value [ON HAND]

Row: 2 Col: 60 Printer attr: 0
Field length : 4 Print format: Left justified

Records to include must match the following criteria

- 1 - SMV(1,1):=''
EQ
- 2 - SMV(2,6):=CONTA.NER
EQ
- 3 - ?ENTER AUDIT DATE:
EQ
AUDIT.DATE

Where 3 is TRUE

Update Printed Record

No records will be updated by this report

REPORT HEADER

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : 2
Blank data lines WILL be printed
The REPORT HEADER will be printed at the top of every page

Row: 1 Col: 1 Printer attr: 0
Field length : 25 Print format: Left justified
Extracted from: CODATA.COMPANY

Row: 1 Col: 59 Printer attr: 0
Field length : 13 Print format: Left justified
String Value [REPORT DATE:]

Row: 1 Col: 72 Printer attr: 0
Field length : 8 Print format: Left justified
Current system date

Row: 2 Col: 1 Printer attr: 0
Field length : 34 Print format: Left justified
String Value [HAZARDOUS MATERIAL TRACKING SYSTEM]

Row: 2 Col: 63 Printer attr: 0
Field length : 11 Print format: Left justified
String Value [REPORT# 66]

Row: 3 Col: 63 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: #0:#0 + 1

Row: 3 Col: 65 Printer attr: 0
Field length : 7 Print format: Left justified
String Value [PAGE# :]

String Value [DEPT]

Row: 2 Col: 76 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [DIFF]

Row: 3 Col: 1 Printer attr: 0
Field length : 79 Print format: Left justified
String Value [

MAIN REPORT BODY

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : 1
Blank data lines WILL NOT be printed
This block WILL NOT cause a page break

Row: 1 Col: 1 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [YARD:]

Row: 1 Col: 10 Printer attr: 0
Field length : 6 Print format: General format
Extracted from: AUDIT.CONTAINER#

Row: 1 Col: 19 Printer attr: 0
Field length : 4 Print format: Left justified
Extracted from: AUDIT.AREA

Row: 1 Col: 27 Printer attr: 0
Field length : 9.1 Print format: General format
Extracted from: AUDIT.QUANTITY

Row: 1 Col: 42 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: AUDIT.UNIT

Row: 1 Col: 46 Printer attr: 0
Field length : 9.4 Print format: General format
Calculated from: IF NULL(UNIT.GALLONS) THEN #5:=AUDIT.QUANTITY*UNIT.POUNDS ELSE

Row: 2 Col: 10 Printer attr: 0
Field length : 20 Print format: Left justified
Calculated from: IF NULL(CONTA.BER) THEN 'BAD YARD CONTAINER#'

Row: 2 Col: 19 Printer attr: 0
Field length : 15 Print format: Left justified
Calculated from: IF NULL(AREA.NUMBER) THEN 'BAD YARD AREA#'

Row: 2 Col: 42 Printer attr: 0
Field length : 14 Print format: Left justified
Calculated from: IF NULL(UNIT.OOE) THEN 'BAD YARD UNIT#'

Row: 3 Col: 1 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [HMTS:]

Row: 3 Col: 10 Printer attr: 0
Field length : 6 Print format: Left justified
Extracted from: CONTA.BER

Row: 3 Col: 19 Printer attr: 0
Field length : 4 Print format: Left justified
Extracted from: CONTA.THIS_CONTAINER

Row: 3 Col: 27 Printer attr: 0
Field length : 9.1 Print format: General format
Extracted from: CONTA._CONTAINER

Row: 3 Col: 42 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CONTA.ENTERED

Row: 3 Col: 46 Printer attr: 0
Field length : 9.4 Print format: General format
Calculated from: %6=-CONTA.QTY#EQ

Row: 3 Col: 60 Printer attr: 0
Field length : 4 Print format: Left justified
Extracted from: CONTA.DEPT

Row: 3 Col: 71 Printer attr: 0
Field length : 9.4 Print format: General format
Calculated from: %7=-%6-%5

Row: 3 Col: 81 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF %7<0 THEN %7=-%7*-1

Row: 3 Col: 83 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: %8=-%7 + %8

PAGE SUMMARY

There are no entries defined for this block

REPORT SUMMARY

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines preceding block : 0
Blank data lines WILL NOT be printed

Row: 1 Col: 41 Printer attr: 0
Field length : 39 Print format: Left justified
String Value [-----]

Row: 2 Col: 41 Printer attr: 0
Field length : 28 Print format: Left justified
String Value [ABSOLUTE POUNDS DIFFERENCE:]

SMV(1,1):-'''
SMV(2,6):-CONTA.NER

Row: 2 Col: 69 Printer attr: 0
Field length : 11.4 Print format: General format
Calculated from: %8

Row: 5 Col: 1 Printer attr: 0
Field length : 67 Print format: Left justified
String Value [NOTE: REPORT ONLY REFLECTS THOSE CONTAINERS FOUND DURING THE AUDIT

Memory variable usage summary

%0
Report Header
%0=-%0 + 1
%0

%5
Report Body
IF NULL(UNIT.GALLONS) THEN %5=-AUDIT.QUANTITY*UNIT.POUNDS ELSE %5=-AUDIT.QUA
%7=-%6-%5

%6
Report Body
%6=-CONTA.QTY#EQ
%7=-%6-%5

%7
Report Body
%7=-%6-%5
IF %7<0 THEN %7=-%7*-1
%8=-%7 + %8

%8
Report Body
%8=-%7 + %8
Report Summary
%8

String memory variable usage summary
Selection Criteria

CHEM.TR2 Version # 43 Date: 01/13/92

ADDED CHEMICALS
LOCALLY ADDED CHEMICALS

Generated from data contained in:

CHEM CODATA

Application Relationships

CODATA.KEY is found from data in SMV(1,1) -- REL TYPE = 2

Change security: 0 Generate security: 0

Last user to modify this report: T

Number of lines per page: 60
Number of lines to use : 60
Line length of printer : 132
Width of left margin : 0
Spacing will be used to find the top of form

Attribute to initialize printer for this report: 0
Negative numbers will be printed preceded by a dash -

Any temporary sort files will be placed on TEAM-UP drive: C
Destination of this report: -
This report WILL be abortable.

Report Order

Name	Length	Order
CHEM.ER	6	A
Total	6	

Report will use index on CHEM.ER
Start/Stop prompts on index will NOT be utilized.

Selection Criteria

Records to include must match the following criteria

- 1 - SMV(1,1):='''
EQ
- 2 - CHEM.CHEMMASTER

NE

Where 2 is TRUE

Update Printed Record

No records will be updated by this report

REPORT HEADER

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : 2
Blank data lines WILL be printed
The REPORT HEADER will be printed at the top of every page

Row: 1 Col: 1 Printer attr: 0
Field length : 25 Print format: Left justified
Extracted from: CODATA.COMPANY

Row: 1 Col: 59 Printer attr: 0
Field length : 13 Print format: Left justified
String Value [REPORT DATE:]

Row: 1 Col: 72 Printer attr: 0
Field length : 8 Print format: Left justified
Current system date

Row: 2 Col: 1 Printer attr: 0
Field length : 34 Print format: Left justified
String Value [HAZARDOUS MATERIAL TRACKING SYSTEM]

Row: 2 Col: 63 Printer attr: 0
Field length : 11 Print format: Left justified
String Value [REPORT#: 67]

Row: 3 Col: 63 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: 40:-40 + 1

Row: 3 Col: 65 Printer attr: 0
Field length : 7 Print format: Left justified
String Value [PAGE#:]

Row: 3 Col: 72 Printer attr: 0
Field length : 3 Print format: General format
Calculated from: 40

Row: 5 Col: 29 Printer attr: 0
Field length : 23 Print format: Left justified
String Value [LOCALLY ADDED CHEMICALS]

PAGE HEADER

There are no entries defined for this block

MAIN REPORT BODY

Printer attribute for this block: 6
Line spacing for this block : 1
Number of lines following block : 1
Blank data lines WILL NOT be printed
This block WILL NOT cause a page break

Row: 1 Col: 1 Printer attr: 0
Field length : 9 Print format: Left justified
String Value [CHEM ID#:]

Row: 1 Col: 11 Printer attr: 0
Field length : 6 Print format: Left justified
Extracted from: CHEM.ER

Row: 1 Col: 18 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [CAS#:]

Row: 1 Col: 24 Printer attr: 0
Field length : 9 Print format: Left justified
Extracted from: CHEM.NUMBER

Row: 1 Col: 34 Printer attr: 0
Field length : 11 Print format: Left justified
String Value [CHEM FORM:]

Row: 1 Col: 45 Printer attr: 0
Field length : 60 Print format: Left justified
Extracted from: CHEM.FORMULA

Row: 2 Col: 1 Printer attr: 0
Field length : 15 Print format: Left justified
String Value [CHEMICAL NAME:]

Row: 2 Col: 16 Printer attr: 0
Field length : 80 Print format: Left justified
Extracted from: CHEM.NAME

Row: 3 Col: 1 Printer attr: 0
Field length : 62 Print format: Left justified
String Value [HMIS (HEALTH, FLAMMABILITY, REACTIVITY, PERSONAL PROTECTION):]

Row: 3 Col: 63 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CHEM.HMIS_HEALTH

Row: 3 Col: 65 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CHEM.Y

Row: 3 Col: 67 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CHEM.REACTIVITY

Row: 3 Col: 69 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CHEM.OTECTION

Row: 4 Col: 1 Printer attr: 0
Field length : 49 Print format: Left justified
String Value [NFPA (HEALTH, FIRE, REACTIVITY, SPECIAL NOTICE):]

Row: 4 Col: 50 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CHEM.RD

Row: 4 Col: 52 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CHEM.NFPA_FIRE_HAZARD

Row: 4 Col: 54 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CHEM.NFPA_REACTIVITY

Row: 4 Col: 56 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CHEM.ICE

Row: 5 Col: 1 Printer attr: 0
Field length : 96 Print format: Left justified
String Value [TIER II(FIRE HAZARD, SUDDEN PRESSURE, REACTIVITY, ACUTE HEALTH. DE

Row: 5 Col: 97 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CHEM.FIRE_HAZARD

Row: 5 Col: 99 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CHEM.PRESSURE

Row: 5 Col: 101 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CHEM.E

Row: 5 Col: 103 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CHEM.ARD

Row: 5 Col: 105 Printer attr: 0
Field length : 1 Print format: Left justified
Extracted from: CHEM.AZARD

Row: 6 Col: 1 Printer attr: 0
Field length : 15 Print format: Left justified
String Value [CURRENT STATE:]

Row: 6 Col: 16 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [PURE:]

Row: 6 Col: 22	Printer attr: 0
Field length : 1	Print format: Left justified
Extracted from: CHEM.PURE	
Row: 6 Col: 25	Printer attr: 0
Field length : 5	Print format: Left justified
String Value [MIX:]	
Row: 6 Col: 30	Printer attr: 0
Field length : 1	Print format: Left justified
Extracted from: CHEM.MIX	
Row: 6 Col: 33	Printer attr: 0
Field length : 7	Print format: Left justified
String Value [SOLID:]	
Row: 6 Col: 40	Printer attr: 0
Field length : 1	Print format: Left justified
Extracted from: CHEM.SOLID	
Row: 6 Col: 43	Printer attr: 0
Field length : 8	Print format: Left justified
String Value [LIQUID:]	
Row: 6 Col: 51	Printer attr: 0
Field length : 1	Print format: Left justified
Extracted from: CHEM.LIQUID	
Row: 6 Col: 54	Printer attr: 0
Field length : 5	Print format: Left justified
String Value [GAS:]	
Row: 6 Col: 59	Printer attr: 0
Field length : 1	Print format: Left justified
Extracted from: CHEM.GAS	
Row: 7 Col: 1	Printer attr: 0
Field length : 15	Print format: Left justified
String Value [DENSITY (G/CC):]	
Row: 7 Col: 17	Printer attr: 0
Field length : 8.4	Print format: General for
Extracted from: CHEM.CC	
Row: 7 Col: 25	Printer attr: 0
Field length : 7	Print format: Left justified
String Value [VOC's:]	
Row: 7 Col: 32	Printer attr: 0
Field length : 1	Print format: Left justified
Extracted from: CHEM.VOCS	
Row: 7 Col: 36	Printer attr: 0
Field length : 25	Print format: Left justified
String Value [NON-CHEMMASTER CHEMICAL:]	
Row: 7 Col: 61	Printer attr: 0
Field length : 1	Print format: Left justified
Extracted from: CHEM.CHEMMASTER	

PAGE SUMMARY

There are no entries defined for this block

REPORT SUMMARY

Printer attribute for this block: 0
 Line spacing for this block : 1
 Number of lines preceding block : 0
 Blank data lines WILL be printed

Row: 1 Col: 1	Printer attr: 12
Field length : 1	Print format: Left justified
Calculated from: SMV(1,1):=''	

Memory variable usage summary

```
%0
Report Header
%0=%0 + 1
%0
```

String memory variable usage summary

Selection Criteria
 SMV(1,1):=''

Report Summary
 SMV(1,1):=''

CONTA.TR3 Version # 29 Date: 01/13/92

SHELF LIFE
LISTING OF CONTAINERS THAT HAVE EXPIRED OR ARE NEARING SHELF LIFE EXPIRATION

Generated from data contained in:

CONTA CODATA HP

Application Relationships

CODATA.KEY is found from data in SMV(1,1) -- REL TYPE = 2
HP.NUMBER is found from data in CONTA.NER -- REL TYPE = 2

Change security: 0 Generate security: 0

Last user to modify this report: T

Number of lines per page: 60
Number of lines to use : 60
Line length of printer : 132
Width of left margin : 0
Spacing will be used to find the top of form

Attribute to initialize printer for this report: 0
Negative numbers will be printed preceded by a dash -

Any temporary sort files will be placed on TEAM-UP drive: C
Destination of this report: -
This report WILL be abortable.

Report Order

Name	Length	Order
CONTA.BER	0	A
CONTA.IRES	8	D
Total	8	

Report will use index on CONTA.BER

Prompt for start key: ENTER START CONTAINER NUMBER:

Prompt for stop key: ENTER STOP CONTAINER NUMBER:

Selection Criteria

Records to include must match the following criteria

1 - SMV(1,1):='*'

EQ

Where is TRUE

Update Printed Record

No records will be updated by this report

REPORT HEADER

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : 2
Blank data lines WILL be printed
The REPORT HEADER will be printed at the top of every page

Row: 1 Col: 1 Printer attr: 0
Field length : 25 Print format: Left justified
Extracted from: CODATA.COMPANY

Row: 1 Col: 59 Printer attr: 0
Field length : 13 Print format: Left justified
String Value [REPORT DATE:]

Row: 1 Col: 72 Printer attr: 0
Field length : 8 Print format: Left justified
Current system date

Row: 2 Col: 1 Printer attr: 0
Field length : 34 Print format: Left justified
String Value [HAZARDOUS MATERIAL TRACKING SYSTEM]

Row: 2 Col: 63 Printer attr: 0
Field length : 11 Print format: Left justified
String Value [REPORT#: 68]

Row: 3 Col: 63 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: %0=%0 + 1

Row: 3 Col: 65 Printer attr: 0
Field length : 7 Print format: Left justified
String Value [PAGE#:]

Row: 3 Col: 72 Printer attr: 0
Field length : 3 Print format: General format
Calculated from: %0

Row: 5 Col: 7 Printer attr: 0
Field length : 69 Print format: Left justified
String Value [CONTAINERS THAT HAVE EXPIRED OR ARE NEARING EXPIRATION WRT SHELF L

PAGE HEADER

Printer attribute for this block: 6
Line spacing for this block : 1
Number of lines following block : 0
Blank data lines WILL NOT be printed

Row: 1 Col: 1 Printer attr: 0
Field length : 7 Print format: Left justified
String Value [CNT ID#]

Row: 1 Col: 10 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [HP ID#]

Row: 1 Col: 18 Printer attr: 0
Field length : 12 Print format: Left justified
String Value [PRODUCT NAME]

Row: 1 Col: 81 Printer attr: 0
Field length : 5 Print format: Left justified
String Value [SHELF]

Row: 1 Col: 88 Printer attr: 0
Field length : 5 Print format: Left justified
String Value [30-60]

Row: 1 Col: 95 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [0-29]

Row: 1 Col: 101 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [DAYS]

Row: 1 Col: 109 Printer attr: 0
Field length : 7 Print format: Left justified
String Value [CURRENT]

Row: 1 Col: 118 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [UNIT]

Row: 1 Col: 128 Printer attr: 0
Field length : 5 Print format: Left justified
String Value [EQUIV]

Row: 2 Col: 82 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [LIFE]

Row: 2 Col: 88 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [DAYS]

Row: 2 Col: 95 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [DAYS]

Row: 2 Col: 101 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [LEFT]

Row: 2 Col: 110 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [AMT IN]

Row: 2 Col: 127 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [POUNDS]

Row: 3 Col: 88 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [LEFT]

Row: 3 Col: 95 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [LEFT]

Row: 3 Col: 112 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [CNTR]

Row: 4 Col: 1 Printer attr: 0
Field length : 110 Print format: Left justified
String Value [

Row: 4 Col: 111 Printer attr: 0
Field length : 22 Print format: Left justified
String Value [

Row: 5 Col: 1 Printer attr: 0
Field length : 6 Print format: Left justified
Extracted from: CONTA.BER

Row: 5 Col: 1 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: IF (DAYS(CONTA.IRES)-DAYS(SDATE)>60) THEN EXIT

Row: 5 Col: 10 Printer attr: 0
Field length : 6 Print format: Left justified
Extracted from: CONTA.NER

Row: 5 Col: 18 Printer attr: 0
Field length : 40 Print format: Left justified
Extracted from: HP.NAME

Row: 5 Col: 78 Printer attr: 0
Field length : 8 Print format: Left justified
Extracted from: CONTA.IRES

Row: 5 Col: 88 Printer attr: 0
Field length : 1 Print format: Left justified
Calculated from: IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=60)&(DAYS(CONTA.IRES)-DAYS(SD

Row: 5 Col: 88 Printer attr: 0
Field length : 9 Print format: Left justified
Calculated from: IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=0) THEN '!EXPIRED!'

Row: 5 Col: 95 Printer attr: 0
Field length: 1 Print format: Left justified
Calculated from: IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=29)&(DAYS(CONTA.IRES)-DAYS(SD

Row: 5 Col: 101 Printer attr: 0
Field length: 4 Print format: General format
Calculated from: DAYS(CONTA.IRES)-DAYS(SDATE)

Row: 5 Col: 107 Printer attr: 0
Field length: 9.1 Print format: General format
Extracted from: CONTA._CONTAINER

Row: 5 Col: 121 Printer attr: 0
Field length: 1 Print format: Left justified
Extracted from: CONTA.ENTRERD

Row: 5 Col: 124 Printer attr: 0
Field length: 9.4 Print format: General format
Extracted from: CONTA.QTY#EQ

Row: 5 Col: 139 Printer attr: 12
Field length: 1 Print format: General format
Calculated from: IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=60)&(DAYS(CONTA.IRES)-DAYS(SD

Row: 5 Col: 141 Printer attr: 12
Field length: 1 Print format: General format
Calculated from: IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=29)&(DAYS(CONTA.IRES)-DAYS(SD

Row: 5 Col: 143 Printer attr: 12
Field length: 1 Print format: General format
Calculated from: IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=0) THEN %7=-%7 + CONTA.QTY#EQ

MAIN REPORT BODY

Printer attribute for this block: 6
Line spacing for this block : 1
Number of lines following block : 0
Blank data lines WILL NOT be printed
This block WILL NOT cause a page break

Row: 1 Col: 1 Printer attr: 12
Field length: 1 Print format: General format
Calculated from: IF (DAYS(CONTA.IRES)-DAYS(SDATE)>60) THEN EXIT

Row: 1 Col: 1 Printer attr: 0
Field length: 6 Print format: Left justified
Extracted from: CONTA.BER

Row: 1 Col: 10 Printer attr: 0
Field length: 6 Print format: Left justified
Extracted from: CONTA.NER

Row: 1 Col: 18 Printer attr: 0
Field length: 40 Print format: Left justified
Extracted from: HP.NAME

Row: 1 Col: 1 Printer attr: 0
Field length: 110 Print format: Left justified
String Value [-----]

Row: 1 Col: 111 Printer attr: 0
Field length: 22 Print format: Left justified
String Value [-----]

Row: 2 Col: 92 Printer attr: 0
Field length: 31 Print format: Left justified
String Value [30-60 DAYS REMAINING (POUNDS):]

Row: 2 Col: 123 Printer attr: 0
Field length: 10 Print format: General format
Calculated from: %5

Row: 3 Col: 93 Printer attr: 0
Field length: 30 Print format: Left justified
String Value [0-29 DAYS REMAINING (POUNDS):]

Row: 3 Col: 123 Printer attr: 0
Field length: 10 Print format: General format
Calculated from: %6

Row: 4 Col: 105 Printer attr: 0
Field length: 18 Print format: Left justified
String Value [EXPIRED (POUNDS):]

Row: 4 Col: 123 Printer attr: 0
Field length: 10 Print format: General format
Calculated from: %7

Memory variable usage summary

%0
Report Header
%0=%0 + 1
%0

%5
Page Header
IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=60)&(DAYS(CONTA.IRES)-DAYS(SDATE)>=30) THE
Report Body
IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=60)&(DAYS(CONTA.IRES)-DAYS(SDATE)>=30) THE
Report Summary
%5

%6
Page Header
IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=29)&(DAYS(CONTA.IRES)-DAYS(SDATE)>0) THEN

Row: 1 Col: 78 Printer attr: 0
Field length: 8 Print format: Left justified
Extracted from: CONTA.IRES

Row: 1 Col: 88 Printer attr: 0
Field length: 9 Print format: Left justified
Calculated from: IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=0) THEN '!EXPIRED!'

Row: 1 Col: 88 Printer attr: 0
Field length: 1 Print format: Left justified
Calculated from: IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=60)&(DAYS(CONTA.IRES)-DAYS(SD

Row: 1 Col: 95 Printer attr: 0
Field length: 1 Print format: Left justified
Calculated from: IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=29)&(DAYS(CONTA.IRES)-DAYS(SD

Row: 1 Col: 101 Printer attr: 0
Field length: 4 Print format: General format
Calculated from: DAYS(CONTA.IRES)-DAYS(SDATE)

Row: 1 Col: 107 Printer attr: 0
Field length: 9.1 Print format: General format
Extracted from: CONTA._CONTAINER

Row: 1 Col: 121 Printer attr: 0
Field length: 1 Print format: Left justified
Extracted from: CONTA.ENTRERD

Row: 1 Col: 124 Printer attr: 0
Field length: 9.4 Print format: General format
Extracted from: CONTA.QTY#EQ

Row: 1 Col: 139 Printer attr: 12
Field length: 1 Print format: General format
Calculated from: IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=60)&(DAYS(CONTA.IRES)-DAYS(SD

Row: 1 Col: 141 Printer attr: 12
Field length: 1 Print format: General format
Calculated from: IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=29)&(DAYS(CONTA.IRES)-DAYS(SD

Row: 1 Col: 143 Printer attr: 12
Field length: 1 Print format: General format
Calculated from: IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=0) THEN %7=-%7 + CONTA.QTY#EQ

PAGE SUMMARY

There are no entries defined for this block

REPORT SUMMARY

Printer attribute for this block: 6
Line spacing for this block : 1
Number of lines preceding block : 0
Blank data lines WILL NOT be printed

Report Body
IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=29)&(DAYS(CONTA.IRES)-DAYS(SDATE)>0) THEN
Report Summary
%6

%7
Page Header
IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=0) THEN %7=-%7 + CONTA.QTY#EQ
Report Body
IF (DAYS(CONTA.IRES)-DAYS(SDATE)<=0) THEN %7=-%7 + CONTA.QTY#EQ
Report Summary
%7

String memory variable usage summary

Selection Criteria
SMV(1,1):-''

PQUA.TR3 Version # 40 Date: 01/13/92

INVALID EMP DEPT
CONTAINERS THAT WERE DRAWN DOWN BY EMPLS THAT WERE FROM INVALID DEPTS

Generated from data contained in:

PQUA CODATA EMPL CONTA

Application Relationships

CODATA.KEY is found from data in SMV(1,1) -- REL TYPE = 2
EMPL.NUMBER is found from data in PQUA.REQUEST -- REL TYPE = 2
CONTA.BER is found from data in PQUA.BER -- REL TYPE = 2

Change security: 0 Generate security: 0

Last user to modify this report: T

Number of lines per page: 60
Number of lines to use : 60
Line length of printer : 80
Width of left margin : 0
Spacing will be used to find the top of form

Attribute to initialize printer for this report: 0
Negative numbers will be printed preceded by a dash -

Any temporary sort files will be placed on TEAM-UP drive: C
Destination of this report: -
This report WILL be abortable.

Report Order

Name	Length	Order
PQUA.RECEIVED	0	A
PQUA.REQUEST	5	A
PQUA.RECEIVED	8	A
Total	13	

Report will use index on PQUA.RECEIVED
Prompt for start key: ENTER START DATE:
Prompt for stop key: ENTER STOP DATE:

Selection Criteria

Records to include must match the following criteria

String Value [PAGE#:]]

Row: 3 Col: 72 Printer attr: 0
Field length : 3 Print format: General format
Calculated from: %0

Row: 5 Col: 5 Printer attr: 0
Field length : 72 Print format: Left justified
String Value [CONTAINERS THAT WERE MOVED OR DRAWN DOWN BY EMPLOYEES FROM INVALID

PAGE HEADER

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : 0
Blank data lines WILL NOT be printed

Row: 1 Col: 1 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [CNT#]

Row: 1 Col: 8 Printer attr: 0
Field length : 5 Print format: Left justified
String Value [HPID#]

Row: 1 Col: 15 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [PROC]

Row: 1 Col: 20 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [AREA]

Row: 1 Col: 26 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [EMPL]

Row: 1 Col: 32 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [DEPT]

Row: 1 Col: 38 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [DATE]

Row: 1 Col: 65 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [USED]

Row: 1 Col: 73 Printer attr: 0
Field length : 7 Print format: Left justified
String Value [VOC AMT]

Row: 2 Col: 63 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [POUNDS]

1 - SMV(1,1):-'''
EQ
2 - SMV(300,4):-EMPL.DEPT
EQ
3 - SMV(300,4)
NE
CONTA.DEPT
4 - PQUA.USED
NE
0

Where 3 & 4 is TRUE

Update Printed Record

No records will be updated by this report

REPORT HEADER

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : 2
Blank data lines WILL be printed
The REPORT HEADER will be printed at the top of every page

Row: 1 Col: 1 Printer attr: 0
Field length : 25 Print format: Left justified
Extracted from: CODATA.COMPANY

Row: 1 Col: 59 Printer attr: 0
Field length : 13 Print format: Left justified
String Value [REPORT DATE:]]

Row: 1 Col: 72 Printer attr: 0
Field length : 8 Print format: Left justified
Current system date

Row: 2 Col: 1 Printer attr: 0
Field length : 34 Print format: Left justified
String Value [HAZARDOUS MATERIAL TRACKING SYSTEM]

Row: 2 Col: 63 Printer attr: 0
Field length : 11 Print format: Left justified
String Value [REPORT#:] 69]

Row: 3 Col: 63 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: %0=%0 + 1

Row: 3 Col: 65 Printer attr: 0
Field length : 7 Print format: Left justified

Row: 2 Col: 74 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [POUNDS]

Row: 3 Col: 1 Printer attr: 0
Field length : 79 Print format: Left justified
String Value [-

MAIN REPORT BODY

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : 0
Blank data lines WILL be printed
This block WILL NOT cause a page break

Row: 1 Col: 1 Printer attr: 0
Field length : 6 Print format: Left justified
Extracted from: PQUA.BER

Row: 1 Col: 8 Printer attr: 0
Field length : 6 Print format: Left justified
Extracted from: PQUA.NUMBER

Row: 1 Col: 15 Printer attr: 0
Field length : 4 Print format: Left justified
Extracted from: PQUA.R

Row: 1 Col: 20 Printer attr: 0
Field length : 4 Print format: Left justified
Extracted from: PQUA.ID_NUMBER

Row: 1 Col: 25 Printer attr: 0
Field length : 5 Print format: General format
Extracted from: PQUA.REQUEST

Row: 1 Col: 32 Printer attr: 0
Field length : 4 Print format: Left justified
Extracted from: EMPL.DEPT

Row: 1 Col: 38 Printer attr: 0
Field length : 8 Print format: Left justified
Extracted from: PQUA.RECEIVED

Row: 1 Col: 59 Printer attr: 0
Field length : 9.4 Print format: General format
Extracted from: PQUA.USED

Row: 1 Col: 70 Printer attr: 0
Field length : 9.4 Print format: General format
Extracted from: PQUA.GUNT

PAGE SUMMARY

There are no entries defined for this block

REPORT SUMMARY

There are no entries defined for this block

Memory variable usage summary

%0
Report Header
%0:-%0 + 1
%0

String memory variable usage summary

Selection Criteria
SMV(1,1):="P"
SMV(300,4):=EMPL.DEPT
SMV(300,4)

PQUA.TRI4 Version # 47 Date: 01/13/92

INVAL PROC 4 HP
INVALID PROC FOR A HAZARDOUS PRODUCT

Generated from data contained in:

PQUA CODATA EMPL PROCHP

Application Relationships

CODATA.KEY is found from data in SMV(1,1) -- REL TYPE = 2
EMPL.NUMBER is found from data in PQUA.REQUEST -- REL TYPE = 2
PROCHP.PROCHP is found from data in SMV(300,10) -- REL TYPE = 2

Change security: 0 Generate security: 0

Last user to modify this report: T

Number of lines per page: 60
Number of lines to use : 60
Line length of printer : 80
Width of left margin : 0
Spacing will be used to find the top of form

Attribute to initialize printer for this report: 0
Negative numbers will be printed preceded by a dash -

Any temporary sort files will be placed on TEAM-UP drive: C
Destination of this report: -
This report WILL be abortable.

Report Order

Name	Length	Order
PQUA.RECEIVED	0	A
PQUA.REQUEST	5	A
PQUA.RECEIVED	8	A
Total	13	

Report will use index on PQUA.RECEIVED
Prompt for start key: ENTER START DATE:
Prompt for stop key: ENTER STOP DATE:

Selection Criteria

Records to include must match the following criteria

1 - SMV(1,1):-'''
EQ
2 - PQUA.USED
NE
0
3 - SMV(300,6):-PQUA.NUMBER;SMV(306,4):-PQUA.R
EQ
4 - SMV(300,10)
NE
PROCHP.PROCHP

Where 2 & 4 is TRUE

Update Printed Record

No records will be updated by this report

REPORT HEADER

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : 2
Blank data lines WILL be printed
The REPORT HEADER will be printed at the top of every page

Row: 1 Col: 1 Printer attr: 0
Field length : 25 Print format: Left justified
Extracted from: CODATA.COMPANY

Row: 1 Col: 59 Printer attr: 0
Field length : 13 Print format: Left justified
String Value [REPORT DATE:]

Row: 1 Col: 72 Printer attr: 0
Field length : 8 Print format: Left justified
Current system date

Row: 2 Col: 1 Printer attr: 0
Field length : 34 Print format: Left justified
String Value [HAZARDOUS MATERIAL TRACKING SYSTEM]

Row: 2 Col: 63 Printer attr: 0
Field length : 11 Print format: Left justified
String Value [REPORT#: 70]

Row: 3 Col: 63 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: %0=%0 + 1

Row: 3 Col: 65 Printer attr: 0
Field length : 7 Print format: Left justified

String Value [PAGE#:]

Row: 3 Col: 72 Printer attr: 0
Field length : 3 Print format: General format
Calculated from: %0

Row: 5 Col: 14 Printer attr: 0
Field length : 55 Print format: Left justified
String Value [HAZARDOUS PRODUCTS THAT WERE USED IN AN INVALID PROCESS]

PAGE HEADER

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : 0
Blank data lines WILL NOT be printed

Row: 1 Col: 1 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [CNT#]

Row: 1 Col: 8 Printer attr: 0
Field length : 5 Print format: Left justified
String Value [HPID#]

Row: 1 Col: 15 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [PROC]

Row: 1 Col: 20 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [AREA]

Row: 1 Col: 26 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [EMPL]

Row: 1 Col: 32 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [DEPT]

Row: 1 Col: 38 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [DATE]

Row: 1 Col: 65 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [USED]

Row: 1 Col: 73 Printer attr: 0
Field length : 7 Print format: Left justified
String Value [VOC AMT]

Row: 2 Col: 63 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [POUNDS]

Row: 2 Col: 74 Printer attr: 0
Field length : 6 Print format: Left justified
String Value [POUNDS]

Row: 3 Col: 1 Printer attr: 0
Field length : 79 Print format: Left justified
String Value [

MAIN REPORT BODY

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : 0
Blank data lines WILL be printed
This block WILL NOT cause a page break

Row: 1 Col: 1 Printer attr: 0
Field length : 6 Print format: Left justified
Extracted from: PQUA.BER

Row: 1 Col: 8 Printer attr: 0
Field length : 6 Print format: Left justified
Extracted from: PQUA.NUMBER

Row: 1 Col: 15 Printer attr: 0
Field length : 4 Print format: Left justified
Extracted from: PQUA.R

Row: 1 Col: 20 Printer attr: 0
Field length : 4 Print format: Left justified
Extracted from: PQUA.ID_NUMBER

Row: 1 Col: 25 Printer attr: 0
Field length : 5 Print format: General format
Extracted from: PQUA.REQUEST

Row: 1 Col: 32 Printer attr: 0
Field length : 4 Print format: Left justified
Extracted from: EMPL.DEPT

Row: 1 Col: 38 Printer attr: 0
Field length : 8 Print format: Left justified
Extracted from: PQUA.RECEIVED

Row: 1 Col: 59 Printer attr: 0
Field length : 9.4 Print format: General format
Extracted from: PQUA.USED

Row: 1 Col: 70 Printer attr: 0
Field length : 9.4 Print format: General format
Extracted from: PQUA.OUNT

PAGE SUMMARY

There are no entries defined for this block

REPORT SUMMARY

There are no entries defined for this block

Memory variable usage summary

%0
Report Header
%0:=%0 + 1
%0

String memory variable usage summary

Selection Criteria
SHV(1,1):="*"
SHV(300,6):=POQA.NUMBER;SHV(306,4):=POQA.R
SHV(300,10)

HPCHEM.TR4 Version # 54 Date: 01/17/92

CHEM ON HAND
CHEMICALS ON HAND WITH FLAGS FOR OSHA, TOXIC 313, RO, TPO, AB2588 1&2

Generated from data contained in:

HPCHEM	CODATA	CHEM	E2588
CONTA	TOX313	OSHA	P2588

Application Relationships

CODATA.KEY is found from data in SMV(1,1) -- REL TYPE = 2
CHEM.ER is found from data in HPCHEM.ER -- REL TYPE = 2
E2588.ER is found from data in HPCHEM.ER -- REL TYPE = 2
CONTA.WER is found from data in HPCHEM.NUMBER -- REL TYPE = 1
TOX313.ER is found from data in HPCHEM.ER -- REL TYPE = 2
OSHA.ER is found from data in HPCHEM.ER -- REL TYPE = 2
P2588.ER is found from data in HPCHEM.ER -- REL TYPE = 2

Change security: 0 Generate security: 0

Last user to modify this report: SUPER

Number of lines per page: 60
Number of lines to use : 58
Line length of printer : 132
Width of left margin : 0
Spacing will be used to find the top of form

Attribute to initialize printer for this report: 0
Negative numbers will be printed preceded by a dash -

Any temporary sort files will be placed on TEAM-UP drive: C
Destination of this report: -
This report WILL be abortable.

Report Order

Name	Length	Order
HPCHEM.ER	6	A
Total	6	

Report will use index on HPCHEM.ER
Prompt for start key: ENTER CHEMICAL ID#:
Default value for stop key: START

Selection Criteria

Records to include must match the following criteria

1 - SMV(1,1)=-''
EQ
2 - CONTA.QTYSEQ
NE
0

Where & 2 is TRUE

Update Printed Record

No records will be updated by this report

REPORT HEADER

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : 2
Blank data lines WILL be printed
The REPORT HEADER will be printed at the top of every page

Row: 1 Col: 1 Printer attr: 0
Field length : 25 Print format: Left justified
Extracted from: CODATA.COMPANY

Row: 1 Col: 59 Printer attr: 0
Field length : 13 Print format: Left justified
String Value [REPORT DATE:]

Row: 1 Col: 72 Printer attr: 0
Field length : 8 Print format: Left justified
Current system date

Row: 2 Col: 1 Printer attr: 0
Field length : 34 Print format: Left justified
String Value [HAZARDOUS MATERIAL TRACKING SYSTEM]

Row: 2 Col: 63 Printer attr: 0
Field length : 11 Print format: Left justified
String Value [REPORT#: 71]

Row: 3 Col: 63 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: \$0:-40 + 1

Row: 3 Col: 65 Printer attr: 0
Field length : 7 Print format: Left justified
String Value [PAGE#:]

Row: 3 Col: 72 Printer attr: 0

Field length : 3 Print format: General format
Calculated from: \$0
Row: 5 Col: 17 Printer attr: 0
Field length : 49 Print format: Left justified
String Value [CHEMICAL INVENTORY ON HAND + SPECIALS LIST TOTALS]

PAGE HEADER

Printer attribute for this block: 6
Line spacing for this block : 1
Number of lines following block : 0
Blank data lines WILL NOT be printed

Row: 1 Col: 1 Printer attr: 0
Field length : 7 Print format: Left justified
String Value [CHEMID#]

Row: 1 Col: 9 Printer attr: 0
Field length : 4 Print format: Left justified
String Value [CAS#]

Row: 1 Col: 19 Printer attr: 0
Field length : 11 Print format: Left justified
String Value [DESCRIPTION]

Row: 1 Col: 90 Printer attr: 0
Field length : 3 Print format: Left justified
String Value [TOX]

Row: 1 Col: 97 Printer attr: 0
Field length : 3 Print format: Left justified
String Value [OSH]

Row: 1 Col: 104 Printer attr: 0
Field length : 3 Print format: Left justified
String Value [AB1]

Row: 1 Col: 111 Printer attr: 0
Field length : 3 Print format: Left justified
String Value [AB2]

Row: 1 Col: 121 Printer attr: 0
Field length : 3 Print format: Left justified
String Value [CRM]

Row: 1 Col: 130 Printer attr: 0
Field length : 3 Print format: Left justified
String Value [CRM]

Row: 2 Col: 90 Printer attr: 0
Field length : 2 Print format: Left justified
String Value [HI]

Row: 2 Col: 97 Printer attr: 0
Field length : 2 Print format: Left justified
String Value [HI]

Row: 2 Col: 104 Printer attr: 0
Field length : 2 Print format: Left justified
String Value [HI]

Row: 2 Col: 111 Printer attr: 0
Field length : 2 Print format: Left justified
String Value [HI]

Row: 2 Col: 121 Printer attr: 0
Field length : 3 Print format: Left justified
String Value [QTY]

Row: 2 Col: 130 Printer attr: 0
Field length : 3 Print format: Left justified
String Value [QTY]

Row: 3 Col: 121 Printer attr: 0
Field length : 3 Print format: Left justified
String Value [LOW]

Row: 3 Col: 130 Printer attr: 0
Field length : 2 Print format: Left justified
String Value [HI]

Row: 4 Col: 1 Printer attr: 0
Field length : 110 Print format: Left justified
String Value [-----]

Row: 4 Col: 111 Printer attr: 0
Field length : 22 Print format: Left justified
String Value [-----]

SUB REPORT HEADER #1 which breaks on change of HPCHEM.ER

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : -
Blank data lines WILL NOT be printed
This block WILL NOT cause a page break

Row: 1 Col: 1 Printer attr: 12
Field length : 1 Print format: General format
Calculated from: \$1:-0;\$2:-0;\$3:-0;\$4:-0;\$5:-0;\$6:-0

MAIN REPORT BODY

Printer attribute for this block: 0
Line spacing for this block : 1
Number of lines following block : -
Blank data lines WILL NOT be printed
This block WILL NOT cause a page break

Row: 1 Col: 1 Printer attr: 12

Field length : 1 Printer attr: General format
 Calculated from: IF -NULL(TOX313.ER) THEN %1:=%1 + CONTA.QTY%EQ*(HPCHEM.2/100)

Row: 1 Col: 2 Printer attr: 12
 Field length : 1 Print format: General format
 Calculated from: IF -NULL(TOX313.ER) THEN %7:=%7 + CONTA.QTY%EQ*(HPCHEM.2/100)

Row: 1 Col: 5 Printer attr: 12
 Field length : 1 Print format: General format
 Calculated from: IF -NULL(OSHA.ER) THEN %2:=%2 + CONTA.QTY%EQ*(HPCHEM.2/100)

Row: 1 Col: 6 Printer attr: 12
 Field length : 1 Print format: General format
 Calculated from: IF -NULL(OSHA.ER) THEN %8:=%8 + CONTA.QTY%EQ*(HPCHEM.2/100)

Row: 1 Col: 9 Printer attr: 12
 Field length : 1 Print format: General format
 Calculated from: IF -NULL(E2588.ER) THEN %3:=%3 + CONTA.QTY%EQ*(HPCHEM.2/100)

Row: 1 Col: 10 Printer attr: 12
 Field length : 1 Print format: General format
 Calculated from: IF -NULL(E2588.ER) THEN %9:=%9 + CONTA.QTY%EQ*(HPCHEM.2/100)

Row: 1 Col: 12 Printer attr: 12
 Field length : 1 Print format: General format
 Calculated from: IF -NULL(P2588.ER) THEN %4:=%4 + CONTA.QTY%EQ*(HPCHEM.2/100)

Row: 1 Col: 13 Printer attr: 12
 Field length : 1 Print format: General format
 Calculated from: IF -NULL(P2588.ER) THEN %10:=%10 + CONTA.QTY%EQ*(HPCHEM.2/100)

Row: 1 Col: 15 Printer attr: 12
 Field length : 1 Print format: General format
 Calculated from: %5:=%5 + CONTA.QTY%EQ*(HPCHEM.1/100)

Row: 1 Col: 16 Printer attr: 12
 Field length : 1 Print format: General format
 Calculated from: %11:=%11 + CONTA.QTY%EQ*(HPCHEM.1/100)

Row: 1 Col: 19 Printer attr: 12
 Field length : 1 Print format: General format
 Calculated from: %6:=%6 + CONTA.QTY%EQ*(HPCHEM.2/100)

Row: 1 Col: 20 Printer attr: 12
 Field length : 1 Print format: General format
 Calculated from: %12:=%12 + CONTA.QTY%EQ*(HPCHEM.2/100)

SUB REPORT SUMMARY #1

Printer attribute for this block: 6
 Line spacing for this block : 1
 Number of lines preceding block : 0
 Blank data lines WILL NOT be printed

Row: 1 Col: 1 Printer attr: 0
 Field length : 6 Print format: Left justified
 The last contents of HPCHEM.ER

Row: 2 Col: 88 Printer attr: 0
 Field length : 6 Print format: General format
 Calculated from: %7

Row: 2 Col: 95 Printer attr: 0
 Field length : 6 Print format: General format
 Calculated from: %8

Row: 2 Col: 102 Printer attr: 0
 Field length : 6 Print format: General format
 Calculated from: %9

Row: 2 Col: 109 Printer attr: 0
 Field length : 6 Print format: General format
 Calculated from: %10

Row: 2 Col: 116 Printer attr: 0
 Field length : 8 Print format: General format
 Calculated from: %11

Row: 2 Col: 125 Printer attr: 0
 Field length : 8 Print format: General format
 Calculated from: %12

Memory variable usage summary

%0
 Report Header
 %0:=%0 + 1
 %0

%1
 Sub-report Header #1
 %1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0
 Report Body
 IF -NULL(TOX313.ER) THEN %1:=%1 + CONTA.QTY%EQ*(HPCHEM.2/100)
 Sub-report Summary #1
 %1

%2
 Sub-report Header #1
 %1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0
 Report Body
 IF -NULL(OSHA.ER) THEN %2:=%2 + CONTA.QTY%EQ*(HPCHEM.2/100)
 Sub-report Summary #1
 %2

Row: 1 Col: 9 Printer attr: 0
 Field length : 9 Print format: Left justified
 The last contents of CHEM.NUMBER

Row: 1 Col: 19 Printer attr: 0
 Field length : 68 Print format: Left justified
 The last contents of CHEM.NAME

Row: 1 Col: 88 Printer attr: 0
 Field length : 6 Print format: General format
 Calculated from: %1

Row: 1 Col: 95 Printer attr: 0
 Field length : 6 Print format: General format
 Calculated from: %2

Row: 1 Col: 102 Printer attr: 0
 Field length : 6 Print format: General format
 Calculated from: %3

Row: 1 Col: 109 Printer attr: 0
 Field length : 6 Print format: General format
 Calculated from: %4

Row: 1 Col: 116 Printer attr: 0
 Field length : 8 Print format: General format
 Calculated from: %5

Row: 1 Col: 125 Printer attr: 0
 Field length : 8 Print format: General format
 Calculated from: %6

PAGE SUMMARY

There are no entries defined for this block

REPORT SUMMARY

Printer attribute for this block: 6
 Line spacing for this block : 1
 Number of lines preceding block : 0
 Blank data lines WILL NOT be printed

Row: 1 Col: 1 Printer attr: 0
 Field length : 110 Print format: Left justified
 String Value []

Row: 1 Col: 111 Printer attr: 0
 Field length : 22 Print format: Left justified
 String Value []

Row: 2 Col: 73 Printer attr: 0
 Field length : 15 Print format: Left justified
 String Value [REPORT TOTALS:]

%3
 Sub-report Header #1
 %1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0
 Report Body
 IF -NULL(E2588.ER) THEN %3:=%3 + CONTA.QTY%EQ*(HPCHEM.2/100)
 Sub-report Summary #1
 %3

%4
 Sub-report Header #1
 %1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0
 Report Body
 IF -NULL(P2588.ER) THEN %4:=%4 + CONTA.QTY%EQ*(HPCHEM.2/100)
 Sub-report Summary #1
 %4

%5
 Sub-report Header #1
 %1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0
 Report Body
 %5:=%5 + CONTA.QTY%EQ*(HPCHEM.1/100)
 Sub-report Summary #1
 %5

%6
 Sub-report Header #1
 %1:=0;%2:=0;%3:=0;%4:=0;%5:=0;%6:=0
 Report Body
 %6:=%6 + CONTA.QTY%EQ*(HPCHEM.2/100)
 Sub-report Summary #1
 %6

%7
 Report Body
 IF -NULL(TOX313.ER) THEN %7:=%7 + CONTA.QTY%EQ*(HPCHEM.2/100)
 Report Summary
 %7

%8
 Report Body
 IF -NULL(OSHA.ER) THEN %8:=%8 + CONTA.QTY%EQ*(HPCHEM.2/100)
 Report Summary
 %8

%9
 Report Body
 IF -NULL(E2588.ER) THEN %9:=%9 + CONTA.QTY%EQ*(HPCHEM.2/100)
 Report Summary

%9

%10

Report Body
IF -NULL(P2588.ER) THEN %10:=%10 + CONTA.QTY#EQ*(HPCHEM.2/100)
Report Summary
%10

%11

Report Body
%11:=%11 + CONTA.QTY#EQ*(HPCHEM.1/100)
Report Summary
%11

%12

Report Body
%12:=%12 + CONTA.QTY#EQ*(HPCHEM.2/100)
Report Summary
%12

String memory variable usage summary

Selection Criteria
SMV(1,1):=''

Appendix F: CA AB2588 Chemicals

The data entered into the Master Application Menu, options 41 CA AB2588 A-I Chemicals and 42 CA AB2588 A-II Chemicals, were obtained from the State of California Air Resources Board's Technical Guidance Document to the Criteria and Guidelines Regulation for AB-2588, August 1989 issue.

The following chemicals were not identified in the CHEM Master database. This listing is provided for the user(s) who would like to pursue identification of these chemical identification numbers.

- Androgenic (anabolic) steroids
- Chlorophenoxy herbicides
- Estrogens, nonsteroidal
- Estrogens, steroidal
- Progestins
- Alpha-chlorinated toluenes
- Benzidine-based dyes
- Bromine compounds (inorganic)
- Chlorophenols
- Creosotes
- Dialkylnitrosamines
- Environmental tobacco smoke
- Fluorocarbons (chlorinated & brominated)
- Glycol ethers
- Hexachlorocyclohexanes
- Isocyanates
- Lead compounds (inorganic)
- Mineral fibers
- PAHs (polycyclic aromatic hydrocarbons)
- Silica, crystalline

Appendix G: TEAM-UP Reference Manual

Table of Contents

System Security	215
Introduction	215
The Trunk	218
The Limbs	220
The Branches	222
The Leaves	223
Miscellaneous	224
Access Data Operations	225
Introduction	225
Access Data Operations	225
Screen Definition	225
Access Data Keyboard Controls.	226
Activate Commands	228
Selecting an Application	228
Requesting Help	229
Working with the Application.. . . .	229
The Oneliner Operations	235
[P] The Print Operations	236
[R] The Report Operation	237
[U] The Update Operation	238
Exit Access Data	238
Text Editor	239
Load	239
Exit	239
Save	240
Quit	240
Find	240
Replace	240
Printer	240
DOS	241
Report Data	244
Definition of a Report	244
Report Data - An Overview	245
Accessing Report Data	246
Report Operations Menu....	246
Creating New Reports	249

Design Menu	249
Print Description	257
Rules of Thumb for Creating Formulas	263
Questions at Conclusion of Block	267
4 -Report Header	268
5 -Page Header	268
6- Report Body	268
Summary Block Capabilities	269
The Predefined Computations.	270
7- Page Summary	271
8 -Report Summary	271
Miscellaneous	273
General Note	279
Special Features	282
Glossary.....	288

System Security

Introduction

Security is an integral part of the TEAM-UP environment; however, it is only as good as the management behind the security.

Initial entry into TEAM-UP is through a sign-on procedure. The user is recognized by a username and a password. Once identified, the user is granted or denied access to various functions within TEAM-UP based on authorizations assigned by the system manager.

Security will take on various forms:

1. group security
2. menu security
3. function security
4. item security

These levels allow management to build a "tree" type structure of security. The further out on the limb a user is, the fewer processes he can perform. Conversely, the closer the user is to the trunk of the tree the more authority he will have. A system is made up of many trees. Each tree trunk becomes a group, the menus provide the limbs, branches allow functions within applications (enter, update, delete, etc.); finally, that "leaves" numeric hierarchy levels to control screen item access.

Any user with authority to access System security can change groups, add and delete users, alter passwords and adjust security levels.

AUTHORIZATION INTO SECURITY SHOULD BE RESTRICTED TO THE SYSTEM MANAGER AND PERHAPS ONE OR TWO OTHER TRUSTWORTHY USERS.

The Security Menu

TEAM-UP's Security Menu lists four activities. The first two enable the system manager to enter, delete or modify user and application security. The third and fourth activities generate report listings of users and application groups.

Users

Select Set User Security to manipulate user security levels. There is no limit to the number of users. More than one person can sign on by using the same username/password from any station in a network environment.

The security information on each user is stored collectively in the file TEAMUP.USR. Destruction of this file will render your system useless.

The first forty users in the system are displayed at the top of the screen upon entry into User Security. If more than forty users currently have access, [FG UP] and [PG DN] may be used to scroll through the list. Choose a user by moving the highlight over the username and [RET]. If adding a new user to the system, type the username and [RET]. This will present the Security Maintenance information at the bottom of the screen.

Cursor movement within this screen from option to option is accomplished via [TAB], [ARROWS], [HOME] and [END] keys. The [RET] key will save all changes. The [ESC] key will abort the maintenance process with no changes made. The [DEL] key will delete the user from Security, and [INS] will allow another *user's* parameters to be duplicated (see Copy a User).

Add a User

Since entry to the TEAM-UP system is via username and password, each person who uses the system must be assigned a username and password. After selecting Team Menu choice #4 and entering System Security, type the username of the new user and [RET].

Copy a User

An added user often requires the exact security parameters as an existing user. To copy a user, press [INS] at the Security Maintenance screen and use the [ARROW] keys to move the highlight to the user whose security parameters YOU wish to copy. Press [RET] and the parameters will be copied. This does NOT copy the password. Make any other changes and exit with a [RET] to save your work. The new user will now be a part of the system.

Caution: Pressing [ESC] will exit security and current work will be lost.

Delete a User

Select the user. When the Security maintenance screen for that user is displayed, press [DEL] and confirm the prompt by typing a Y. The user will be deleted from the system.

Username

A Username is any string of eight or less characters.

Password

A Password is any string of eight or less characters or simply a [] (space) if you do not wish to assign a password.

Each user in the system has a unique password. This password is entered on the Security Maintenance screen and is never again displayed in a readable form. [????????] will display when a password is entered. The password is stored in an encrypted form so it will not be accessible/readable from the operating system level.

The password is not echoed to the screen at sign-on time. Should a user forget his password, a new password must be assigned.

Change a Password

Select the user whose password you want to change from the list at the top of the Security Maintenance screen. Press the [TAB] key to the password option and enter the new password. Press [RET] to save the changes.

Typing TEAMPASS from the operating system prompt is an alternative method of changing a password. This program allows any user to change his password without entering Security. The program will ask for username, old password and new password. A user can include this executable program on a Procedural Language menu.

Autoload Application

Autoload Application allows a user to be placed automatically into a Data Manager application after sign-on. Type the name of the application within the brackets to use this feature.

NOTE: If Autoload Application contains the name of an application and the next feature, Autoload Menu Path is NOT used--the system merely highlights the first application on the list displayed.

Autoload Menu Path

Autoload Menu Path takes the user from the sign-on screen to whatever place in the system an entered "dot" path specifies. Enter the "dot" path designator within the brackets to use this feature.

Terminal Init File (TIF)

Use of the Terminal Init File is optional. Setting up a .TIF file requires special programming in hexadecimal and a good understanding of the terminal hardware. It is something only experienced computer users should attempt.

Each user may have a special Terminal Initialization File that is stored as username.TIF and will allow each user to program their own function keys. When the user signs on, the file is read and whatever information it contains is sent to that user's terminal.

What one must realize is that establishing a .TIF file is NOT a function of TEAM-UP. The user must create this file by using a DOS utility such as DEBUG. The file should be given the username as the file name with an extension of .TIF. TEAM-UP merely provides for the TIF's drive letter to indicate its existence and location.

To establish the .TIF TEAM-UP location, place the drive letter indicating the directory containing the file within the brackets.

User's Security Level

Each user in the system will have a numeric security level from 0 to 9. The default level for a new user is 0 (zero), the lowest possible level.

The User's Security level is compared with the security level assigned to any application or application function within TEAM-UP. In order to be allowed access to or perform a function on an application, the user level must be equal to or greater than the level assigned to the application or application function.

User's ID Number

The User's ID number is used to stamp records when using Record Security. If you do not need to use Record Security, [TAB] past this entry. If necessary, enter a number between 0 and 9999.

When the application's Record Security is active, the user ID number is stamped "invisibly" on each record entered by the user. After a record is stamped, ONLY THAT USER (or other user with the same user ID or a higher security level) can retrieve that record from the application. The User's ID number need not be unique if you wish more than one user to see certain records. Remember, even if two or more user's ID numbers are the same, their respective security levels may allow or disallow certain program functions.

User Group Membership

Group membership by user is established on the third screen of user security. To access this screen, press the [PG DN] key.

To add a user to a group, see Add a User to a Group.

The Trunk

Group Security

Group Security is the highest level of security in the TEAM-UP environment. Both the user and application must be members of at least one identical group before access is allowed. By default, all users and all applications are members of all groups. Therefore, if you do not need to use this feature, you can ignore its existence.

CLGROUPS .EXE, a utility program, can be used to reset Group security membership to its default value (when installed) for all users and all applications. Operation of this program is fully documented in the Utility Programs section. Access to the program should be carefully controlled as it could be used to totally defeat Group security.

The information on Groups is stored in the file TEAMUP.GRP. This file should be backed up periodically by the System Manager.

Group Philosophy

The philosophy behind Groups is to provide the ability to segment applications into areas of responsibility, i.e. administration, sales, personnel, etc. These segments, or “trunks”, become the groups under which applications will operate. For example, under the administration group you may have applications for appointments, budgets, forecasting, etc. The sales group might contain order entry, inquiries, customers or daily sales stats. In the personnel department there would be employee records, payroll or insurance.

TEAM-UP's System Security permits the establishment of Groups throughout its environment. When an application is created, one of the featured processes (Group) allows you to define what group(s) the application will belong to. You can create an application's Group that **MUST** intersect with System Security's Group in order for the application to be accessed by the user. Users with identical Security Levels can therefore be unable to access each other's applications for the simple reason that they don't belong to the same Group.

Remember, System Security establishes the Groups for the TEAM-UP environment. Each application defines its group membership(s).

Setting Group Security

Group Security is accessed by pressing [PG DN] from the security maintenance screen. The user is presented with a screen listing the names of all groups within the system.

The user you are currently working with is a member of all groups that are highlighted. By default, ALL users and ALL applications are members of ALL Groups when originally entered into the system.

Press [PG DN] again to save Group Security.

Add a Group

Groups are entered into the system through the second screen of User Security. To add a Group, choose any username. From the User Security maintenance screen press the [PG DN] key to reach-the Group security window. Move the pointer(>) with the [ARROW] key until the first blank line is reached and enter the name of the Group. Group names are 1 to 15 characters in length, including blanks.

To SAVE your entries press the [PG DN] key. Exiting with [ESC] causes all changes to be lost.

NOTE: All users are automatically members of this new Group unless the user has been previously removed from any group.

ANY APPLICATION OR USER WHO IS NOT TO BE A MEMBER OF THIS GROUP MUST BE INDIVIDUALLY REMOVED.

Delete a Group

Once created, a Group CANNOT be deleted. It may, however, be renamed by overwriting with a new name. If deleting a Group is necessary, remove all user members and all application members of the Group which will leave it null.

Caution! Any new users or new applications are automatically members and must be removed from this Group.

NOTE: Deleting all groups from an application renders that application inaccessible except through the Application Security Menu selection of Security.

Add User to a Group

All users, when entered into Security, are automatically members of all Groups. If you have removed a user from a Group, that user can be restored to membership in the Group.

Enter System Security, choose that user and [PG DN] to reach the Group Security window. Place the (>) next to the proper Group name and press the [INS] key. A highlighted Group name indicates the user is a member of that Group.

Exit and save by pressing [PG DN].

Delete User from a Group

Enter System Security, choose that user and [PG DN] to reach the Group Security window. Place the (>) next to the proper Group name and press the [DEL] key. The highlight over the Group name will disappear and the user is no longer a member of that Group. Once removed from a group, however, the user will no longer be added when a new group is created. The user is considered a "limited access user". The system manager must add such users individually.

Exit and save by pressing [PG DN].

The Limbs

Menu Access

At sign-on time, entering a correct username and password presents the user with the TEAM MENU. Access to the components of this menu is granted or denied to the user by the parameters established for that user in System Security. Entering a Y for the corresponding menu selection allows the user access to that part of TEAM-UP. An N denies access to the user and the user will see an asterisk (*) in place of the menu selection.

Access to DATA MANAGER	[Y]
Access to ACCOUNTANT	[Y]
Access to Text Editor	[Y]
Access to System Security	[Y]
Access to Operating System	[Y]

Access to Data Manager

Users granted access to Data Manager will be allowed to view the Data Manager Menu. Access to each menu selection may be granted or denied to the user by entering a Y or N next to the prompt that corresponds to the Data Manager Menu selections. A response of N causes the corresponding selection to appear as an asterisk (*) on the Data Manager Menu.

Data Manager - Access Data

Responding with a Y to Access Data allows the user to view all applications permitted by Group and Security Levels. (Security Levels are discussed later in this section). The functions that a user can perform on individual applications are controlled by the various Function Securities assigned within the application.

Data Manager - Report Data

Responding with a Y to Report Data allows the user to view all applications permitted by Group and Security Levels. Access to the various reports under an application is a function of the security level assigned in each Report and the Print Security level assigned within the application.

Data Manager - Import Data

Responding with a Y to Import Data allows the user to view all applications permitted by Access Data. Granting access allows the user to move data from external ASCII or DIF file formats into an application.

Data Manager - Design

Responding with a Y to Design permits a user to select Design Applications (selection 4) from the Data Manager Menu and enter a second menu. The user is given the individual design functions of Create/Change, Define, Enlarge, etc. Granting Design Applications Menu capabilities allows the user to view the same applications as Access Data and perform only those design functions which were granted under Security.

Data Manager - Maintain

Responding with a Y to Maintain permits a user to select Maintain Applications (selection 5) from the Data Manager Menu and enter a second menu. The user is given the individual maintenance functions of Enlarge, Reindex, Reorganize, Copy, Delete, Etc. Granting

Maintain Menu capabilities allows the user to view the same applications as Access Data and perform only those maintenance functions which were granted under Security.

Accountant

This is a separately purchased package that is accessed from the TEAM Menu. Access to this package, if purchased, gives the user access to a complete transaction-oriented, integrated accounting package.

Text Editor

Access to the Text Editor allows a user to create and alter any text file on the system.

The Branches

Application Security

Each application in the TEAM-UP environment is secured in two ways: 1) through Group Membership Security and 2) through a Security Level assigned to the application itself and individual security levels or the various functions performed against the application. Security can even be given to data items.

Group Security is reviewed earlier in this reference section.

The second type of security, discussed in the following paragraphs, applies to the various functions performed against an application. It is based on the assigned user security level and the assigned application security level. Each application has a Master Security level, Security levels for the various functions and Security levels for each data item. The default for each type of security upon the creation of an application is 0.

Master security and Function security for an application can be set or changed in Design Applications, Create/Change or System Security, Set Application Security. Item security for a particular data item can be set or changed in Design Applications, Define. When a user attempts to execute a function (Find, Update, Enter, etc.), its security value is compared against the User's Security level. If an individual User's Security level is less than the security level for that function, that function is unavailable and will not execute.

Master Security

Master Security is used to determine which users can access an application. A User's Security level must be greater than or equal to an application's Master Security for that user to have access to the application. If the User's Security level is less than the application Master security, the list of applications displayed to that user will NOT include the application.

Function Security

The Function Security levels for an application control who can perform functions on the application. The functions Find, Enter, Update, Delete, Print and Batch each have their own security by application. A user can be denied the right to perform any of these functions by setting security higher than the User's Security level.

If an individual User's Security level is less than the function security, the function will not be performed and the message "Command Not Allowed" is displayed on the screen.

NOTE: If records are being processed indirectly as a related application through the Procedural Language, the Security is not checked.

Audit Security

Audit Security allows records that are deleted or changed by an operator whose User security level is less than the functional Audit Security level to remain invisibly in the application's data file until assigned to another location or removed by the Remove Records function.

The number of Audit Records contained in an application can be seen via Maintain Applications, Show Status.

Record Security

Record Security is a functional security option that can be turned on or off in the Create/Change portion of Design Applications.

Records, as they are entered, will be stamped with the User's ID Number of the user entering the record if Record Security is turned ON.

The Leaves

Item Security

Item Security allows a user to access items in a single application on an item-per-item basis. It controls whether or not a user will see a particular item. If an individual User's Security level is less than a particular item's security level, that item will NOT appear on the user's screen, thus protecting sensitive data areas.

Item Security applies to the Tab Skip option found in Design Applications, Define. If the User's Security level is less than a particular item's Tab Skip security level, the cursor will NOT stop on that item. The user can see the information on the screen, but he may not change it.

Miscellaneous

Terminal Keyboard Lockout

TEAM-UP provides a keyboard lock to protect access when an authorized user leaves the computer for a short period of time. To lock an IBM or IBM compatible keyboard, press the [ALT] and [F2] keys simultaneously. Other keyboards may be programmed during INSTEAM. Unless the NEXT key is part of the unlock sequence, TEAM-UP will beep whenever any key is pressed while the keyboard is locked.

To unlock the keyboard, press [ALT] and [F2] simultaneously. Type your password EXACTLY AS IT WAS TYPED WHEN YOU FIRST SIGNED ONTO TEAM-UP, followed by [RET].

Data File Encryption

Additional security can be applied to any application in the form of data file encryption. When a file is in an encrypted form, data is not recognizable from the operating system level. It can only be viewed through TEAM-UP by a user with proper security authorization. The Encrypt function is activated through the Design Applications Menu.

Error Recovery

Loss of the file TEAMUP.USR could cause loss of User Security definitions. The System Manager should make backup copies of this file after every change has been made to a user's security access authorization. Use the most recent backup copy to restore access to your system should the active TEAMUP.USR file be destroyed. The File TEAMUP.USR can be restored from the original TEAM-UP distribution disks should no other alternative be available. Access to TEAM-UP will then be restricted to the username and the password PASSWORD. All users will have to be redefined.

Access Data Operations

Introduction

Data Manager's Access Data section is the driving force of TEAM-UP; all other areas of the product provide support. In this area information is retrieved, changed, deleted and entered. Access Data uses a screen-oriented Query-By-Example method of data entry and retrieval. Its operation is so intuitive that most people can learn it in minutes.

Access Data Operations

All screen and keyboard handling is pre-programmed; however, a Procedural Language is available so an application developer can describe custom processes that must occur for any given operation. Very sophisticated custom processes can exist for an application without the end user's knowledge or concern.

In a typical application development scenario, the custom Procedural Language process requires between 5 and 20 percent of the total effort. The remaining 80 to 95 percent is consumed by those functions that are already programmed and fully tested in TEAM-UP.

Screen Definition

There are two basic display modes when accessing Data Manager applications:

- * Full Screen mode
- * Oneliner mode

Full Screen Mode

Each application can contain up to 255 pages of information in the Full Screen Mode. Each page contains a Command area, a Message line and a Free Form Application area. The Command area of Access Data's screen is the ten characters in the upper left corner of the screen. This area contains two pieces of information:

- * Actual command letter followed by a blank space
- * Name of the application

Access Data's single letter commands are phonetically easy to remember. The most frequently used commands are:

F for Find E for Enter U for Update D for Delete

Other commands that are used less often, but are equally important:

C for Calculate O for Oneliner R for Report
P for Print B for Batch

The name of an application must be eight characters or less in length. This name is originally defined by the application developer and is used to identify that application. The Message line is the last line on the screen. This line displays error messages, selected item information, current page number and time of day. The Data Block is a template of item names and data areas used to enter record selection criteria, display application data and enter new or changed data.

The display of individual items can be suppressed for specific levels of users through the implementation of User Security Levels and Item Security Levels. This enables sensitive information to be stored in records without the operator's knowledge.

A basic application item is represented as an item name ending in a colon (:) with areas for data display represented by underscores (_) and terminated with a period (.). The colon and the period can be changed in all applications by the TEAM-UP INSTEAM utility. Individual applications can be changed via Design Applications, Create/Change, Options.

The *Onliner Mode*

This mode is automatically activated when any data retrieval or Find operation does not result in an exact match with the selection criteria. The Onliner screen displays selected record items, one record to a line, with up to 20 records on a page. There are two Onliner screens:

* Standard Onliner screen

* Alternate Onliner screen

The items displayed on the Standard Onliner screen are defined by the application developer using the Define Items function. The items displayed on the Alternate Onliner screen can be defined and redefined by the operator from within Access Data. The process requires two keystrokes, as explained in The Onliner Operations [O] section.

Access Data Keyboard Controls

Cursor Movement

Cursor Movement within an application in Access Data is accomplished through the use of the ARROW keys, the [TAB], [BTAB], [BSPCE], [PAGE UP] and [PAGE DOWN] keys.

From the Full Page Mode . . .

Movement from Page to Page; Movement from Page to Page only occurs for applications that have more than one page. The [PAGE UP] key causes the preceding page to be displayed with the cursor in the first item position. If the first page is displayed when the [PAGE UP] key is pressed, the last page appears. If the cursor is in the home position and the [BTAB] key is pressed, the preceding page is displayed with the cursor located in the data area of the last item on the screen. The [PAGE DOWN] key causes the next page to be displayed with the cursor in the first item position. If the last page is displayed when the

[PAGE DOWN] key is pressed, the first page is then displayed. If the cursor is in the data area of the last item on the screen and the [TAB] key is pressed twice, the next page is displayed with the cursor in the first item on the screen.

Movement to the Home Position; Press the [HOME] key to move the cursor to the first position of the command area. Press the [HOME] key twice from any page of an application and the system returns to page one.

Movement from Item to Item; The [TAB] and [BTAB] are the primary keys used to move the cursor from item to item. The cursor does not stop in the data area of those items where a tab skip has been defined. Press the [TAB] key and the cursor moves to the next available item. If that item is on the next page, the cursor will position itself directly after the last item on the page and wait for another [TAB] to go to the next page. [BEG LN] and [END LN] keys may be used to move to the beginning of an item and the end of an item, respectively. Press the [BTAB] key and the cursor moves to the previous available item. If that item is on the preceding page, the page change occurs automatically.

If the cursor is in the first data position of the item and the [LEFT ARROW] is pressed, the cursor moves to the first data position of the item immediately to the left or the last item on the previous line. If the item is the first item on the page, the cursor moves to the home position. If the [UP ARROW] is pressed, the cursor will travel as vertically as possible from item to item. If the cursor is in the last data position of the item and the [RIGHT ARROW] is pressed, the cursor moves to the first data position of the item immediately to the right or the first item on the next line. If the item is the last item on the page, the cursor will position itself directly after the last item and wait for a [RIGHT ARROW] or [TAB] to go to the next page. If the [DN ARROW] is pressed, the cursor will travel as vertically downward as possible from item to item.

Movement within an Item's Field; The ARROW keys are used to move the cursor around the data area of an item without changing the data displayed. If the item's data spans more than one line, the [UP ARROW] and the [DOWN ARROW] keys move the cursor from line to line.

From the Oneliner Mode . . .

The Oneliner Mode is operational only during a Find operation.

Movement from Page to Page; The Oneliner mode supports scanning through application data records that meet specified search criteria. Since more than one page of records can meet this criteria, it is necessary to move from page to page within the Oneliners. The [PAGE DOWN] key causes the next page of records, sorted in ascending order, to be displayed. The [PAGE UP] key causes the preceding page of records to be displayed in descending order. The [ACT] or [END] keys repeat the previously selected page movement, providing the cursor is in the HOME position.

Movement from Record to Record; The [TAB] or [DN ARROW] keys move the cursor from the home position to the left of the first displayed Oneliner record, then from the first to the

second, etc., and from the last back to the home position. The [BTAB] or [UP ARROW] keys operate like the [TAB] key except cursor movement is reversed.

Oneliner Mode Operations

- * Enter an application name or menu path in the first 12 positions of the command area and press [ACT] to change from one application to another.
- * Press [ESC] to re-display the screen which contains the selection criteria.
- * Tab or backtab to the left of a oneliner and press [ACT] or [END] to display the full screen of the selected record.
- * Use a Oneliner activity (see this section - The Oneliner Operations).
- * Invoke an Alternate Order of items displayed in the oneliners (see this section - The Oneliner Operations).
- * When the message '[ACT] for more oneliners' is displayed, press [ACT] to display more records on the one per screen.
- * If the message 'Search completed' appears, press [ACT] to re-display the full screen containing the selection criteria.

Activate Commands

Access Data commands are activated in one of two ways:

- * The [ACT] key. When this key is pressed, the command in the upper left corner of the screen is initiated. TEAM-UP, when installed, is configured to use the [RET] key as the [ACT] key. Keyboards can be re-configured as desired via the INSTEAM program.
- * Control keys represented by ^ ([CTRL]). For example, ^E directs the user to hold down the [CTRL] key and simultaneously press the letter [E]. A ^E activates the Enter command, REGARDLESS OF WHAT COMMAND SHOWS IN THE COMMAND AREA OR WHERE THE CURSOR IS LOCATED ON THE SCREEN! The control [CTRL] key overrides any command letter that is presented in the command area. The user can reduce processing time by using ^F for Find, ^E for Enter, ^U for Update, ^D for Delete, ^C for Calculate, ^B for Batch, ^P for Print, ^R for Report or any other control keys that have been defined by the application developer.

Selecting an Application

An application can be selected from the application list displayed upon initial entry to Access Data or upon exiting a displayed application. As with other areas of TEAM-UP, access to any application can be limited with the use of Group Security, as well as User Security level and Application Master Security level.

From the Application List

At the Application List, use the [TAB], [BTAB], ARROW, etc., keys to highlight the desired application and press [ACT] to activate the selection. If more applications are available than can be shown on one screen, the [PAGE UP] and [PAGE DOWN] keys will scroll through the available list to find the appropriate application.

From an Access Data Help Page

With either the System Help Page or an Application Help Page displayed, press [ACT] to reactivate a previously selected application.

From Another Application

Place the cursor in the home position, type the name of the desired application and press [ACT]. Users may also exit Access Data and select the application from the Application List.

Requesting Help

User-definable help is available at the system level and at the application level. The System Help Page contains general information about the operation of Access Data. The Application Help Page contains information about the operation of a specific application.

The System Help Page

Place the cursor in the home position and press the [HLP] key. Return to the previously selected application by pressing [RET].

An Application Help Page

With the application selected, place the cursor anywhere in the data block area and press the [HLP] key. Return to the previously selected application by pressing [RET].

Working with the Application

Clearing the Application Form

Place the cursor in the home position and press [RET]. All item data areas will be cleared to underscores. This should be done before initiating a Find or Enter operation. The [DEL OEL] or ^Z (zap) function may be used to: (1) clear the entire record if performed from the HOME position or (2) erase from the position of the cursor to the end of the record.

[B]-The Batch Operation

A Batch operation is performed when similar changes are made to large numbers of records. The procedure is as follows:

- * Describe the operations you wish to perform by using the Procedural Language.
- * Enter the record selection criteria in the same manner as described for the Find operation (see the Find operation, below).
- * Activate the Batch operation by pressing [ACT] with a B in the home position or by using a ^B from anywhere on the screen.
- * TEAM-UP then Finds a record and updates it using the Batch Procedural Language.

If a Batch program has NOT been made part of the application, the Batch process does not make any changes to the application. Remember, TEAM-UP will check the program before execution and any discrepancy will halt the procedure. If, when the Batch command is activated, the second position of the command area is blank, then each record found which satisfies the specified selection criteria is automatically Updated without any operator intervention. However, if the second position of the Batch command area contains an underscore (_), TEAM-UP asks the operator to confirm each record's Batch Update operation before it takes place.

EXAMPLE: B_PARTS

When this mode is in operation, TEAM-UP Finds a record that meets the selection criteria, displays the Oneliner version of that record and waits for an operator response. If the response is:

- * Y - The record is updated, a new record is found and another prompt is issued.
- * N - The record is NOT updated, a new record is found and another prompt is issued.

This process continues until all records in the application that satisfy the selection criteria have been processed. The Batch process can be canceled at any time by pressing the [ESC] key.

NOTE: When the cancel capability is exercised, those records that have already been processed remain updated. The ability to use the Batch operation can be secured using user security level and application Batch security.

[C] The Calculate Operation

The Calculate command can be activated by pressing [ACT] with a C in the home position or by using a ^C from anywhere on the screen. The Calculate or Read Only operation causes the processing of an application's Procedural Language to take place but NO changes will be entered in any files. This command can be used even if a record has not been previously found. It is generally used by an operator to determine if the keyed data entry is correct before an Enter or Update command is used.

[D] The Delete Operations

The Delete operation can be performed from either the Full Screen or Oneliner mode. The Delete Record operation does not cause an associated PL program to be executed unless it contains a test for the Delete Operation. If Audit Security is not active on an application, the indexes that point to the selected records are removed and the space it occupies is recaptured for use during a subsequent Enter command. If Audit Security is active on an application, the selected records are marked as inactive, its indexes are removed and the data remains in the record for audit purposes. These inactive records can be removed with the Remove Records function. The ability to Delete can be secured using User Security levels and Application Delete Security.

Full Screen Delete; In this mode, the Delete command can be activated by pressing [ACT] with a D in the home position or by typing a ^D from anywhere on the selected record screen. Upon completion of the operation, Access Data responds with the message:

* Record Deleted

NOTE: IF A RECORD IS ACCIDENTALLY DELETED, THE USER CAN IMMEDIATELY REINSTATE IT USING THE ENTER COMMAND.

Oneliner Screen Delete; To delete records in the Oneliner mode

- * Place a D or X next to each record you wish to delete.
- * Move the cursor to the home position.
- * Press [RET].

If a D is placed next to a record, that record will be Deleted. If an X is placed next to a record, that record will be Printed and then Deleted. You can use a D on one or more records and an X on other records at the same time. You can even add a P for Print Record, if necessary (see Print Operations below).

[E] The Enter Operation

The Enter Operation can be activated by pressing [ACT] with an E entered in the home position and the cursor positioned in the data block area or by typing a ^E from anywhere on the screen. Entering records can be accomplished by:

- * Typing in the data
- * Finding a similar record and modifying the data

The Enter operation is a transaction, and it causes an application's PL program, if it exists, to be executed. After the execution of the PL program, the data is added to the application's data file and indexes are created so the record can be found the next time an appropriate Find operation is performed. Upon completion of the Enter Operation, Access Data responds with the message:

* Record Entered

The ability to enter records may be secured by using User Security levels and application Enter Security.

[F] The Find Operation

The Find Operation can be activated by pressing [ACT] with an F entered in the home position and the cursor positioned in the record or by using a ^F from anywhere on the screen. When the Find command is executed, Access Data goes into a searching mode looking for records whose data matches the specified selection criteria (see Setting Selection Criteria, below). If the search Finds a single record that exactly matches the specified criteria, Access Data exits the search mode and displays the record in the Full Screen display mode. If a PL program exists for this application and it contains a reference to the Find Operation, the PL program is executed prior to the data display. If the search does not Find an exact match, the Oneliner Screen display mode is activated and displays the found records. The operator must then control the search by moving from page to page on the Oneliner Screen and selecting the desired record.

After a record is selected and before the data is displayed, all of the record's PL code for OPER('F') is executed. The searching process may be ended at any time by pressing [ESC]. The Find operation may be secured using User Security Levels and application Find security. Searching TEAM-UP's innovative Query-By-Example can be learned in minutes. Simply move the cursor to the item which contains the data in question, type the known information and let Access Data Find the records.

For example, enter the CUSTOMER application, move the cursor to the Key Item State, type FL and press [RET]. Access Data enters the Oneliner mode and displays all customers in the state of Florida.

Specifying the Order of the Search; Always place selection criteria in at least one Key item. If this is not done, TEAM-UP will assume the first key item positioned on the screen as the valid sequence for the search and tells Access Data the display order. To help the operator remember which items are Key Items, Key Item names may be displayed using a unique attribute, e.g. Reverse Video. If information is placed in more than one Key Item, THE ORDER OF THE SEARCH WILL BE BY THE LAST KEY ITEM WHICH CONTAINS SEARCH DATA!!!

EXAMPLE: If the selection criteria JAC is placed in the Key Item City, then only those records where the city name begins with JAC are examined to see if they meet the other selection criteria.

The application might contain 10,000 records, but if only 3 of them contain cities that started with JAC, Access Data will only examine 3 records for a match. If you type a space followed by AC, e.g., "AC" in the City Key Item, all 10,000 records will be examined.

To search for information which has no relationship to a Key Item, type a space, which is a "global" selection criteria, in any Key Item. All records in the application are searched in

order by that Key Item. Placing a space in one Key Item, with no other selection criteria present, allows searching through all records in an application.

Setting Selection Criteria: During a Find Operation, information displayed in the first 100 item data areas is treated as selection criteria. That is, only those records which contain information that exactly matches the data on the screen are found and displayed. Items 101 through 1000 require special qualifiers (see Special Search Qualifiers, below). The letter case of the selection criteria does not matter; i.e. A=a, B=b. You may enter selection criteria into as many item data areas as necessary for the search to be qualified. Unless special action is taken, the comparison between selection criteria and record data is an equal comparison.

- * Character data is compared on a character by character basis from left to right.
- * Numeric data is compared by the numeric value rather than their placement within the item.

[Q] *Special Search Qualifiers*

Within Access Data, nine Special Search Qualifiers or relational operators are available for use in finding records. Any single search may use Special Search Qualifiers on up to 50 different data items. EQ, equal to, is the default value with the following other qualifiers available:

GE greater than or equal to	GT greater than
LE less than or equal to	LT less than
NE not equal to	MP match phrase (alphabetic data only)
NL null	NN not null

To invoke a Special Search Qualifier Operation on a particular item, move the cursor to that item's data area and press ^Q. Each time you press ^Q, a different highlighted qualifier is displayed on the message line at the bottom of the screen. You may toggle or rotate through all nine qualifiers by repeatedly pressing ^Q. The last qualifier displayed for an item is the one that is used when the Find Operation is activated.

To initiate a search using Special Search Qualifier Operations:

- * Use ^Q to toggle to the desired search qualifier.
- * Type your selection criteria.
- * Enter any other selection criteria and activate the Find command.

If the record or records searched for exist and a single exact match is not found, Oneliners are displayed matching the selection criteria with the Special Search Qualifier. Incorrect individual search qualifiers may be corrected by:

- * Moving the cursor to the item which contains the incorrect qualifier.
- * Press ^Q to toggle to the correct qualifier.
- * Re-initiate the Find.

Multiple searches with minor variations in the criteria and qualifiers may also be initiated using this method. Special Search Qualifiers may be used in conjunction with the Alternate Oneliner Screen and Oneliner Totals. Clear the application form to erase selection criteria and Special Search Qualifiers.

[T] *Totaling Numeric Items*

The contents of up to 20 numeric and/or money items may be summed during a search operation. The result is displayed only on the Oneliner or Alternate Oneliner screen and that result reflects the contents of all records examined since the beginning of the search. Totals are cumulative from one oneliner screen to the next.

To identify the items from which summations should be generated:

- * Place the cursor in the desired item.
- * Press ^T.

The highlighted word TOTAL appears on the Message line only if that item is a numeric or money item.

To activate a summation search process:

- * Identify the items you wish to have totaled with the ^T.
- * Enter the selection criteria.
- * Initiate a find operation.

The items identified for summation with the associated Totals are displayed on the bottom of the Oneliner screen, though the items themselves need not appear on the oneliner. A total can be run on virtually any numeric item contained within the first 100 items. The sum reflects the data contained in each of the records displayed to the Oneliner screen during this search, i.e. the Totals displayed at the bottom of the subsequent screens include all Totals for the records from the preceding screens. In this manner, a running total for the search is displayed on each screen. Oneliner Totals take precedence over the display of Oneliners; therefore, if you request 20 totals and the Oneliner screen is set to display 20 records, only 10 oneliners are actually displayed to make room for the 10 lines of Totals. To remove an item from the summation process:

- * Move the cursor to that item's data area.
- * Press ^T.

^T adds an item to the summation process if it is not already in that process and removes it if it is. To clear the entire summation process:

- * Move the cursor to the home position.
- * Press [ACT].

NOTE: While in the Oneliner mode, moving backwards, i.e. [PAGE UP], through the Oneliner screens, turns off the Total operation.

Oneliner Totals may be used in conjunction with Special Search Qualifiers and Alternate Oneliner Screens.

The Oneliner Operations

Changing the number of records displayed on a Oneliner Screen:

- * Move the cursor to the home position.
- * Type the letter O for Oneliner, followed by a [SPCE], followed by the number of records you wish to display on each Oneliner screen.
- * Press the [ACT] key.

EXAMPLE: O 20- causes a maximum of 20 records to be displayed on the Oneliner screen.
05- causes a maximum of 5 records to be displayed on the Oneliner screen.
00- causes the Full Screen to be displayed in the Oneliner mode.
[PAGE UP] and [PAGE DOWN] can be used to scroll from record to record.

[O] Alternate Oneliner Screen

The Alternate Oneliner Screen is available for use, but has no predefined form. Once the Oneliner Display is defined for an application, that definition remains in effect until it is temporarily modified by the Alternate Oneliner Process. This process is activated by pressing ^O with the cursor on an item. Continue to press ^O for each item desired on the Alternate Display. The items will be presented, from left to right, according to selection sequence. Remember the maximum character display is restricted to 73 characters; however, you may make changes to the Alternate Oneliner screen whenever you desire.

Define the Alternate Items on the Oneliner Display

Alternate Oneliner definitions must be accomplished while in the Full Screen display mode. To define the Alternate Oneliner screen:

- * Move the cursor to the data item you wish to see on the Alternate Oneliner screen.
- * Press ^O for Oneliner to add that item to the Alternate screen.

The highlighted word ONE displays on the Message line to indicate that this item is on the Alternate Oneliner screen. To remove an item from the Alternate Oneliner screen:

- * Move the cursor to that item.
- * Press ^O.

Any change to the Alternate Oneliner screen automatically sets that screen version for the next search operation. Alternate Oneliner Screens may be used in conjunction with Special Search Qualifiers and Oneliner Totals.

Switch to Alternate Oneliner Screen

While in the Oneliner screen, press [^O] to change the screen display from the Standard Oneliner screen to the Alternate Oneliner form.

Switch to Standard Oneliner Screen

While in the Oneliner screen, press [^O] to change the screen display from the Alternate Oneliner screen to the Standard Oneliner form.

Record Zoom-UP and Return

TEAM-UP provides a Special Zoom-Up feature to display the full page of a record while remaining in the Oneliner mode. To activate a Record Zoom-UP:

- * Initiate a Find Operation to produce oneliners.
- * Place the cursor beside the desired oneliner record and press the [ACT] or [END] key.

The full record will Zoom-UP for display. An operator has all functions available (enter, update, delete, etc), with one addition. When processing of the selected record is completed, the [END] key will return the operator to the same Oneliner Screen to continue with his work.

[P] The Print Operations

The Print Operation can be performed from either the Full Screen mode or the Oneliner mode. The ability to use a Print Operation can be secured using User Security Levels and Application Print Security.

Full Screen Print

Print to a Local Printer: The Print command can be activated by pressing [ACT] with a P entered in the home position and the cursor positioned in the data block of the screen or by typing a ^P from anywhere on the screen.

Print to a Spooled Printer: In multi-user systems, many users make use of the same printer. Such systems have a network program usually referred to as a Spooler. The Spooler accepts print requests from each user and places the data in a special file, one file for each user. These special files are called spool files. From there, another program actually prints the information contained in the spool files, one file at a time, to the printer. If your network has more than one printer on line, the user may choose the printer by returning to the home position and entering:

- * P [space] Printer #

To determine the printer number, refer to the INSTEAM program TEAM-UP expects the spooler program to be active. To despool, press {HOME], enter a 'P' in the command area and [ACT]. The print spool file is held active and not printed until:

- * A Print command is issued entering [HOME] P [ACT],
- * A new printer is selected, [HOME] P{space} PRINTER# or
- * You exit Access Data.

Oneliner Print

In the Oneliner Mode:

- * Place a P, O or X next to each record you wish to print.
- * Move the cursor to the home position.
- * Press [ACT].

If you place a P next to a record, that record will be printed. If you place an O next to the record, that oneliner will be printed. If you place an X next to a record, that record will be printed and then deleted. You may use a P on one or more records and an X on other records at the same time. You can even use a D for Delete Record if necessary.

[R] The Report Operation

The Report Operation is a combination of the Find and the Print operations and is used for Ad-hoc reporting. Access Data reports are displayed in whichever Oneliner screen mode is active--Standard, Alternate or Full Screen. They can be sent to the screen or to the screen and to the printer. During a Report Operation, you may not select a record for further processing. A Report Operation can be stopped at any time by pressing [ESC].

Report to the Screen

- * Select the appropriate Oneliner mode.
- * Enter the desired selection criteria.
- * Activate the report with a ^R or by pressing [ACT] with an R entered in the HOME position of the Command area and the cursor placed in the data block of the screen.

NOTE: If the Alternate Oneliner mode is active, records will be printed in that display format. Otherwise, the Standard Oneliner format will be used. If the number of oneliners to display is set to zero, the report function will present full screens of each *record*.

During the Report process, if you desire to temporarily stop the display, press the space bar. The display stops and holds until you press another key. If Totals for numeric items are defined, those Totals are displayed for the Report. If the number of records displayed on the Oneliner screen is greater than zero, then the report is displayed in either the Alternate or Standard Oneliner screen format. If the wrong format is displayed, use ^O to change it. If the number of records displayed on the Oneliner screen is set to zero, then a Full Screen is

displayed. In multi-page applications, the page from which the Report was initiated is displayed.

Report to the Printer/Spooler

The Report to the Printer/Spooler is very similar to the Report to Screen operation. It is activated by:

- * Placing an underscore in the second position of the command area following the R.
- * Activating a Report Operation by pressing [ACT] with the cursor positioned in the data block.

Information will be sent to both the printer/spooler and to the screen.

[U] The Update Operation

To use the Update Operation:

- * Select the record you wish to change.
- * Make the appropriate changes on the screen.
- * Activate the command with a ^U or by placing a U in the home position, positioning the cursor in the data block and pressing [ACT].

If Audit Security is activated, then the old copy of the selected record is marked as inactive, its indexes are removed, the data remains in the file for audit purposes and a new record is Entered. These inactive records can be removed with the Remove Records function. This operation is a transaction and it activates whatever Procedural Language programs exist for the application. The ability to use the Update Operation maybe secured using User Security Levels and application Update security.

IMPORTANT TECHNICAL NOTES: The TEAM-UP UPDATE command is performed in three steps:

- * A record's keys are removed from the Index (.TIR) file.
- * The data is "overlaid" into the data file (.TDR) where the original record was located.
- * The key items are reinserted into the .TIR in their proper positions.

Exit Access Data

Place the cursor in the home position on the Full Screen and press [ESC]. The Application List is displayed. You may also type a menu path at the home position and press [ACT].

Text Editor

The Text Editor is a full page text editor used primarily to create and change text files. Upon entry to Text Editor, the screen displays a menu of eight options:

* Load	* Exit	* Save	* Quit
* Find	* Replace	* Printer	* DOS

To select an option, use the [ARROW], [TAB], etc., keys to highlight the desired selection and confirm your selection with [RET] or type the first letter of the option name.

Load

The Load option retrieves a file of text from the disk and then activates the Edit process.

Identify the File to Edit

Upon selection of the Load option, enter the name of the text file to be edited. To identify the file, enter the following in the same format as it is found in the operating system (e.g. D: TEXT.DOC).

- * drive (if other than the default drive)
- * file name
- * file extension, if needed

If the file does not exist, a new file is created. If the file exists, the entire file is brought into the text editor unless the file is too large. If the file is too large, an error message is sent to the screen and the process is aborted.

The drive is assumed to be a TEAM-UP drive location. However, if the drive or file name contains a “\” symbol, an operating system path name undefined within TEAM-UP is assumed.

C:\WP\TEXT.DOC specifies that the file TEXT.DOC should be loaded from the word processor on the C drive--the location C:\WP need not be described in the TEAM-UP path file.

LOAD allows the user to change the name of the file currently being edited. Selecting LOAD after making changes will generate a prompt for file name change. Enter the new file name and SAVE or EXIT.

Exit

The Exit option saves all changes made to the current text stored on disk under the same file name as was used during the most recent Load operation and then displays the Design Applications Menu.

Save

The Save option enables the operator to save all changes to a file without exiting the Text Editor. Changes made to a file are not permanent until either the Exit or Save option has been exercised. During a long edit session, the Save option should be used periodically to ensure that a power failure does not cause significant loss of work. After editing a file, a backup copy with the extension of .BAK is created and preserves the file in its pre-edited condition.

Quit

The Quit option does not save the changed data before the Design Applications Menu is displayed. All changes will be lost.

Find

The Find option will search through the text file from the cursor to the end of the file to find every occurrence of the search criteria. The Find option first prompts the operator for the criteria. The next prompt specifies between lower and upper case. The cursor will then move to the end of the first occurrence of the text specified, relative to the cursor position in the file. If the cursor was in the home position, all occurrences of the text will be found. If the cursor was in the middle of the text, all occurrences from the middle to the end of the text will be found. To move from one occurrence to the next occurrence within the text, press [^F].

Replace

The Replace option works like the Find option except the operator can replace the text found with other text. The operator is prompted for the text to replace the original text with. The following options are available:

* **A - All**

* **O - One**

* **V - Verify**

(Y indicates *Replace*, N indicates *Ignore*)

Printer

The Printer option allows the user to select which printer is to receive the output. This option also tells TEAM-UP to despool if your station is connected to a spooled printer.

DOS

The DOS option allows the user to exit TEAM-UP, execute DOS commands and then return to the Text Editor by typing EXIT.

operation of the Editor

The Text Editor is a general purpose, page-oriented text editor with a text capacity of 30,000 characters. The following sections define its use.

Movement from Page to Page

- * Use the [PG UP] key to move to the preceding page. If you are on the first page of the text file, the [PG UP] key has no effect.
- * Use the [PG DN] key to move to the next page. If you are on the last page of the text file, the [PG DN] key has no effect.
- * Use the [DEL LINE] key to delete a line.
- * Use the [INS LINE] key to insert a line.

Cursor Movement within a Page

- * The [SPCE] and [SPCE] keys move the cursor one position to either the right or left; however, it also erases the character that was under the cursor at the beginning of the move.
- * The [RET] key breaks the line at the cursor location and moves the cursor and any data under or to the right of it to the beginning of the next line.
- * The [ARROW] keys move the cursor around the screen one character at a time. No information is erased.
- * The [TAB] and [TAB] keys move the cursor five character positions to the right or left as appropriate. No information is erased.
- * The [HOME] key moves the cursor to the beginning of the first line of text in the document.
- * The [END] key moves the cursor to the end of the last line in the document.
- * The [BEG LINE] key moves the cursor to the beginning of data on the current cursor line.
- * The [END LINE] key moves the cursor to the end of data on the current cursor line.

Data Insert Mode

The [INS] key activates the Insert mode if it is deactivated and deactivates the Insert mode if it is activated. The word INSERT appears on the top of the screen when the Insert mode is activated.

When the Insert mode is activated, typing a character causes all characters under and to the right of the cursor to move right to make room for the new character typed.

When the Insert mode is deactivated, typing a character replaces the character under the cursor with the new entry.

The [LINE INS] key inserts a blank line at the cursor location.

Delete Text

- * The [DEL] key deletes the character under the cursor' and moves all text to the right of the cursor to the left one character position.
- * The [LINE DEL] key deletes the entire line on which the cursor is positioned.
- * The [DEL EOL] key deletes from the cursor to the end of the line.

Print Text

To get a hard copy print of a block of text, place the cursor at the beginning of the desired block. Press the [^P] key. Move the cursor to the end of the desired block and press [^P] again. The text will go to the currently selected printer. This device could be a local printer or a spooled printer on a multi-user system.

*NOTE: Use of the text print capability causes the operating system to lock up if the **currently selected printer** is not active.*

For example, if on a single user system you do not have a printer hooked to your computer, your computer will "lock up". If this occurs, wait for the prompt to Abort, Retry or Ignore. Choosing Ignore will tell TEAM-UP not to print the text.

copy Text

To Copy a block of text, place the cursor at the beginning of the desired block. Press the [CPY BLCK] key. Move the cursor to the end of the desired block and press [CPY BLACK] again. This process makes an exact duplicate of the data in a special buffer. "

Move the cursor to where you wish the copied data to reside and press the [CPY BUF] key. The data in the special buffer is inserted at the cursor location.

NOTE: Any Move or Copy operation changes the data stored in the special buffer. When a new file is loaded, the contents of this special buffer are not disturbed, allowing you to copy text from file to file.

Move Data

The Move Data operation is similar to the Copy Data operation except that you use the [MVE BLCK] key instead of the [CPY BLCK] key. The second time the [MVE BLCK] key is pressed, the identified data is copied to the special buffer and erased from its original position on the screen.

Undo the Previous Command

Pressing [UNDO] will cancel any changes made to the current line. Once you leave the line, however, your changes are saved and cannot be undone. Your changes are not saved to the disk until you use the SAVE or EXIT commands. If this has not been done, you may reLOAD the current file without the changes.

Pulldown Item Names

The Text Editor has the ability to provide the item names of any TEAM-UP application. To use this aid, place the cursor after the item name and period and press [HLP]. Select the desired item name by using the arrows and [RET]. [ESC] will not select an item name. If the cursor was on a different item name, that name will be replaced with the one selected.

Enter Command Mode

Pressing [ESC] from the edit screen will place the user in the command mode.

Enter Edit Mode

Pressing [ESC] from the command mode will place the user in the edit mode.

Report Data

Definition of a Report

A report is defined as an account of something seen, done or studied. Reports generated within TEAM-UP compile and account for all information stored in the application items tagged by the report's designer as being pertinent to the current topic.

Reports have an infinite number of formats. Resumes, letters, invoices and inventory lists are all reports and they all have one thing in common. They state facts. To introduce you to the basic components of a report, the following paragraphs will dissect a resume and label its parts.

In our example, a designer is preparing a resume for a specific job. He includes all available information that will make the resume informative and concise. He also formats the resume in whatever fashion will make it the most attractive and the easiest to read.

The resume's writer will place his name, address and telephone number at the top of the first page of his resume. This area is known as a Report Header and it contains the topic of discussion. All information contained within the resume or report consists of Report Bodies.

The major sections of the resume could be entitled Education, Desired Occupation and Employment History. Report Data refers to these titles as Sub Report Breakpoints. The text beneath them is known as a Report. Each paragraph constitutes a Data Block. Summary paragraphs at the end of each section are known as Report Summaries.

JOHN DOE'S RESUME (Report Header)

DOE, JOHN (Page Header)

EDUCATION
(Report Breakpoint)

|
(Data Block)

|
Desired Occupation
(Report Breakpoint)

TOTAL YEARS EXPERIENCE = 21.2
(Formula, Summation)

|
In conclusion,...
(Report Summary)

As a close to my resume,...
(Report Summary)

Each data block within the report is X number of lines in depth and X numbers of characters in width. The depth and width of the data block constitute its parameters.

The information contained within each data block is chosen by the designer based upon Selection Criteria. The order in which the data is listed, e.g. from year to year, is the data's Sort Order.

If the designer wishes to add the number of years spent working in one discipline, such as engineering, he may perform a Summation or create a Formula. Each previous job will be reviewed, and all years spent in engineering will be summed. The total could be inserted in the Sub Report Summary under the Sub Report Breakpoint entitled Employment History.

A Page Header containing the designer's name or other information may be placed at the top of a page. Page Summaries can contain information such as page numbers or running totals. Page Summaries will appear at the bottom of the page.

Remember, the italicized words given in the previous paragraphs are the key words used in the report generation process.

Report Data - An Overview

The TEAMUP Reporter allows the user to create either simple or complex, multi-level reports. The creation process is consistent with TEAM-UP's menu prompted philosophy. Reports may be generated to a screen, a printer or a file. Report designs can be created, changed, evaluated or removed (deleted) as user needs dictate.

Optional operator responses at the time of report execution allow variable input for record selection without requiring expertise on the part of the operator.

Reports designed for a specific application are not restricted to the data contained in that application. Up to nine (9) other data bases can be involved to accommodate data sharing and record updating.

TEAM-UP's reporter has many special features. "Windows" allow the operator to check item spelling, printer attributes and formulas for special calculations. Operators can take advantage of the ability to condition output in the same printed position via the "If" statement.

The basic philosophy behind the Report Generator is the presentation of data in a pre-formatted and orderly manner. Headings, dates, page numbering, sub-totals, labels, summary totals, etc., may be used to provide continuity. This data is the result of all activity occurring within Access Data. These records are simply retrieved, manipulated and printed by the reporter. Of course, "printing" is not the only option. TEAM-UP provides screen display reports and reporting to disk files in ASCII format, with or without delimited characters. This data can be exported to other software packages for use in spread sheets or use in mail-merge processes.

Accessing Report Data

To access Report Data, choose menu selection number 2 on the Data Manager Menu or use the dot-pathing method (1.2) from anywhere in Data Manager. The user is greeted upon entry with the applications list and a prompt for an Application name. Only those applications authorized by Security are shown.

The system displays the names of all reports currently defined for that application after application selection. These 16 reports (.TRO through .TRF) are tracked by TEAM-UP's Control File. This limit is NOT a limit on the number of reports any given application can have. It is the limit on those which can be tracked by TEAM-UP's Report Data module. To access a report not tracked by TEAM-UP, you must know the name of the file in which the report definition is stored. When prompted for the report, enter the file name with its three character extension. The Reporter will validate the file as a report and continue. If the file does not exist, a new report will be created with the currently selected application as the major application. Any report can be accessed in this manner, even reports for other applications.

To select the report, highlight the report name or type the report name at the prompt. Press [RET] to confirm the selection.

Report Operations Menu

Report Operations are performed after selecting a report. The above screen is presented if a selected report already exists. If you are creating a new report, see this section - Report Design.

Select a Report Menu option by highlighting the desired option or by typing the first letter of the menu option (G, D, E, P or R) at the selection prompt. Confirm the choice by pressing [RET]. Press [RET] again to initiate the default value of Yes or No shown.

The Evaluate (E) option has two additional confirmation prompts:

- (A) - Evaluates all reports for an application
- (S) - Evaluates all reports in the system

G - Generate

Once the choice to generate (execute) a report is confirmed, TEAM-UP checks:

- * If the user security is less than the Print security in the main application, the system will not allow report generation.
- * If the user security is less than this report's internal report generation security (Design, Miscellaneous Parameters, Set Security later in this section), the system will not allow report generation. This security additionally limits users who may have

application Print security but whose security level is below the generation security level from executing this report.

* If any application from which the report draws data has changed, you are told that an Evaluate is necessary and the report list is re-displayed.

If System Security permits access and the selected report does not require evaluation, the following message may be displayed:

* Where do you wish the report (S =screen, P=printer, F=file) [S]

The system has the value S in brackets as a default. Pressing [RET] tells the system to send the report to the SCREEN. If you type P, the report is sent to the PRINTER.

NOTE: If a printer is not associated with the terminal, the system will pause as DOS waits for the printer. Data loss will NOT occur.

Typing F sends the report to a FILE. With this option, the system prompts for a file name to which the report can be written. **YOU MUST USE A FILE NAME THAT IS NOT ALREADY IN EXISTENCE.** Also, you can specify the drive and DOS path if you want the file placed somewhere other than on the default drive. Precede the file name with the drive designator followed by a colon, e.g. drive: \path\filename.

You may enclose non-numeric items in quotes and insert a comma after all but the last item of a line. This is useful in creating delimited files for Basic programs, Mail Merge processes or Spreadsheets. Two or more delimited files can be joined and imported through the Import Data module to create new applications. Respond to the prompt according to your output requirements.

If the report you are generating has multiple sort items defined, an extra file sort is required before the report can be generated. The following message maybe displayed:

* On which drive should temporary sort files be placed: [@]

The @ in brackets indicates the default drive. If you wish to place the temporary sort files on other than the default drive, type the TEAM-UP drive letter at the prompt.

NOTE: You may only use drives that are defined in the .PTH (path) file,

If the first sort item defined for the Report Order is a key item and its sort sequence is ascending, the following message may be displayed:

* Enter start key value for key ITEM NAME:

Type the lowest key value for which data is to be included in the report. The wording may be changed when generating the report. How to do this will be discussed later in this section.

EXAMPLE: If your key item is Zip_Code and you type a value of 20000, your report will include only those records whose zip code is equal to or greater than 20000. If your key item is State and you type an N, your report will start with those records whose state name begins with N.

After answering this question, another prompt may be displayed:

* Enter stop key value for key ITEM NAME:

Type the highest key value for which data is to be included in the report. Given the previous example, a value of T will cause all records with a State value of N through T to be included in the report.

NOTE: Start and stop values take precedence over Record Selection criteria (defined in this section under Report Design, A :cord Selection).

If a [RET] is pressed without an entry for start value, records are included starting with the first record in the file. If a [RET] is pressed without an entry for the stop value, records are included beginning with the selected start value and ending with the last record in the file. To include all records in the file, press [RET] at the start and stop value prompts.

At this point, all User Prompts are answered. If prompts were defined for the report in the Record Selection portion of Report Design, you will be asked to enter a value. The system begins the report generation process after all prompts are answered. Messages pertaining to record selection and sort functions appear on the screen. Upon completion, the report will be sent to the chosen destination.

Reports sent to the screen will be displayed one screen at a time. Pressing any key continues the display. At the end of the report; the following message will appear:

* Report generation complete, [RET] to continue

Pressing [RET] takes you back to the Application Report List screen.

D - Design

Reports must be created or changed when an application is changed or when data content or formatting become obsolete. If the user security is less than this report's internal report change security, the system will not allow report changes (see this section - Design, Miscellaneous Parameters, Set Security). After clearing security and selecting Design, TEAM-UP will load the Report Design module for the selected report. This process is discussed at length later on in this section under Design.

E - Evaluate

A report is automatically evaluated when created or when certain changes are made. The evaluation process checks each part of the report to be sure that the report will be able to

perform all operations correctly and locate all data. It does not check the validity of the user's data. When applications that are accessed by a report are changed, it is necessary to re-Evaluate the report.

When you generate a report, TEAM-UP automatically detects changes and displays a message directing you to Evaluate that report. In most cases, Evaluation will permit the generation of a report. However, any fatal errors will have to be corrected before the report can be generated.

P - Print Summmy

This menu selection produces a detailed summary of the report description. The Print Summary is self-explanatory. The summary maybe output to a screen or a printer. You may include a description of each item in each block.

R - Remove Reports

The Remove option allows you to delete reports. If the user security is less than this report's internal report change security, the system will not allow report removal. If your user security allows you to remove this report, you are asked for confirmation of the Remove option. By typing [Y] [RET], all references to the report and the associated report file will be removed from the system.

Creating New Reports

Type the name of the report you wish to create at the prompt for report name and press [RET]. The name can be a maximum of sixteen (16) characters in length, including spaces, but it must be unique to this application.

After entering the report name, you are given the option of copying an existing report form. Enter [E] for an existing report. This report form may be used as the basis for creating the new report. If an appropriate format does not exist, enter [N] for a new report form. By selecting a new [N] report form, you will create the report from scratch. Enter a text description of the report. You may describe the report, using a maximum of 110 characters, or leave the description blank and continue by pressing the [RET] key. If the new report is being defined from an existing report, select the model from the above list of reports. Use the [ARROW] keys to highlight the desired report and [RET].

The Report Design Module is then loaded to allow processing report definitions.

Design Menu

The Report Design Menu is the vehicle through which you design new reports or change the attributes of existing reports. This menu appears as the result of preliminary activities described on the previous pages.

The Report Design Menu is divided into four major sections:

- * REPORT CONTROL
- * PRINT DESCRIPTION
- * SUM REPORT DESCRIPTION
- * MISCELLANEOUS

Report Control

Menu selections within this section allow you to define the criteria necessary to sort and select the data You wish to report. You may also edit the relationships established between the main and related applications used in the report.

Application: APP NAME	REPORT ORDER	Report: REPORT NAME
-----------------------	--------------	---------------------

CURRENT	LEN	ORD	OLD	LEN	ORD
1	undefi	ned	1	undefi	ned
3-	undefi	ned	3-	undefi	ned
	undefi	ned		undefi	ned
4 -	undefi	ned	4 -	undefi	ned
6-	undefi	ned		undefi	ned
7 -	undefi	ned	7 -	undefi	ned
8-	undefi	ned	8-	undefi	ned
9-	undefi	ned	9-	undefi	ned

Enter desi red process:

A-Add, C= Change, D=Del Ete, [ESC]=exi t

1- Report Order

Report Data Selection #1, Report Order, allows you to determine the sequence (ascending or descending) in which the data will be presented when the report is generated. The items defined as sort items need not be key items. Up to nine sort items can be chosen and each item may have a total length of up to 110 characters. If the total length exceeds 110 characters, only the first 110 characters are sorted and the remaining characters are truncated.

No file sort is needed if only one sort item is selected, and it is a key item to be sorted in ascending order. If no sort-items are defined, the report is presented in ascending order by the first key defined for the main application.

An extra file sort is required if any one of the following conditions are true:

- * more than one sort item is defined
- * the key item is to be sorted in descending order
- * the single sort item is not a key item

If any of the above conditions are true, the following message is displayed:

* Report requires file sort

File sorts require extra time and disk space because temporary files are created during report generation. The order in which the sort items are defined is important. Sort item number 1 is the first item sorted. It is the priority item. Items are sorted in order until the sort is completed. When multiple items are sorted, the file sorting process is quicker if the first item specified is a key item sorted in ascending order.

Enter your sort items on the Report Order screen. Enter the length or number of characters from left to right and the order (ascending or descending) that the item(s) are to be sorted.

The screen is divided into two sections. The left section shows the CURRENTLY defined items, while the right side shows the previous sort definition. The right side is used to facilitate “temporary” report changes. Copy the information from the right side to the left side if you wish to reinstate the prior sort order.

During the sort definition process, you can (A)dd, (C)hange and (D)elele sort items. To begin the definition process, type the letter corresponding to the process you wish to initiate.

Add Sort Items

If Add is selected, the system prompts for the Application item name. The application name is already displayed. If this application contains the item you wish to sort, type the item name exactly as it appears in the application or press [HLP] to window the application's items. Windowed items are selected by highlighting the item of choice via the [ARROW] keys, pressing [RET] to select it and pressing [RET] to confirm your decision.

If the item is in a related application, you must change the default application name by over-typing the related application name, followed by a period. Type the item name directly after the period or use the windowing technique as described above.

Once a valid item name is entered, the system prompts for the number of characters for this item to use in the sort. At the prompt, type the numeric value if it is different from the default value contained in brackets. The default is the total length of that item as defined by the application. If a value less than the total length can be used to sort, enter the length of the significant characters. Using a value less than the total value reduces the amount of space taken by the temporary sort files. A value of zero will not sort data.

Sorting on a value of zero allows the user to utilize start/stop key prompts without actually sorting on that item. After entering the sort length, choose the sort order. Enter either an A for ascending or a D for descending. The default value is ascending order.

Change Sort Items

The Change option is similar to the Add option; however, you are prompted for the number of the sort item to be changed. Enter the number corresponding to the sort item to be changed or press [RET] to choose the default number displayed. When a sort item is changed, the left block displays the new sort item and the right block displays the sort item before it was changed.

Delete Sort Items

Choosing the Delete option displays a prompt for the number of the sort item to be deleted. Enter the number corresponding to the desired sort item to be deleted or press [RET] to choose the default number displayed. If there is only one sort item, the left block will be empty and the right block will contain the sort item that was deleted. If more than one sort item is defined, as sort items are deleted, the remaining sort items move up in order of priority.

2- Record Selection

Application: APP NAHE	RECORD SELECTION	Report: REPORT NAME
-----------------------	------------------	---------------------

LOGIC -
1
2
3
4
5
6
7
8
9

Enter desired process:

A=Add, C= Change, D= Delete, [ESC]=exit

Selection #2, Record Selection, is used to choose the application records for the report. This is done by specifying conditions and criteria under which a record should be included. Selection criteria are used to limit the amount of information included in the report.

You may specify up to nine sets of conditions. The format of a condition can be any one of the following:

- * a data item compared to a character (Literal) string
- * a data item compared to a data item (Data value)
- * a data item compared to a Formula
- * a data item compared to a User Prompt
- * a data item compared to a String Memory Variable

* a data item examined for the occurrence of a given character string (MP - Match Phrase) anywhere within the item.

Possible conditional operators are:

EQ = equal	LE = less than or equal	GE = greater than or equal
NE = not equal	LT = less than	GT = greater than
MP = match phrase		

Comparisons are character by character matching for the number of characters in the shortest item or character string for alphabetic data types.

After the initial conditions have been defined, the second line on the screen shows the Logical relationship of the conditions defined (Logic Line).

Operand 1	Operator	Operand 2
1 CUST.Zip	EQ	OLDCUST.Zip
2 CUST.Zip	GT	50000
3 CUST.State	NE	New York
4 CUST.Contract	MP	Expired

The available options for defining Record Selection criteria are:

A . . . to ADD a condition,
C ... to CHANGE an already defined condition or
D . . . to DELETE a condition.

Add . . . Selection Criteria

If you select A for ADD, the system checks to see if this is the first condition defined. If it is not the first condition, you are prompted for a logical operator. The logical operators are AND and OR. These conditions are represented within the Logic Line as the following symbols:

&= AND ! = OR

Logical operators are used to define the relationship between a new condition and all preceding conditions. Logical operators have equal priority and are scanned from left to right. The priority is altered by the use of parentheses. Press the [INS] key to use the Insert mode to position the cursor in the Logic Line. Add punctuation, numbered conditions and/or delete where needed. See Edit Selection Criteria later in this section for more details.

Next, identify the data type you wish to use for the first operand of the condition. The possible selections are:

L = LITERAL string of data

E = DATA VALUE or application data item
F = FORMULA
P = USER PROMPT which is a reporter request to the operator at the time of report execution
v = STRING MEMORY VARIABLE value using the SMV(x,y) form

Most often, the first operand will be the contents of an application item, and the system will default with type [E] or Data Value. If this choice is consistent with the condition being established, press [RET] to accept the default. If not, enter the appropriate letter and press [RET].

A data type E requires the item name for the application from which records are to be selected. The prompt:

* Enter APPLICATION. Item_name - CUST.

contains the application name of the main application followed by a period. Enter the item name. If the record selection takes place from a related application, backspace over the application name and enter the correct name.

If you use an application other than the main application and that application has not been previously defined for this report, the system prompts for a definition of its relationship to known applications (see Edit Relationships in this section).

The “pull down” item name feature can be used for selecting items from the main application or any other application for which the Edit relationship has been established. You can utilize the “pull down” item name feature by pressing the assigned [HLP] key (see Special Features further on in this section). If the data type is not E, i.e. L, F, P or V, see below.

After the first operand is entered, the system prompts for a relational operator such as:

EQ (Equal)	LE (Less than or Equal)	GE (Greater than or Equal)
NE (Not Equal)	LT (Less Than)	GT (Greater Than)
MT (Match-Phrase)		

Press [RET] to accept the default or type the appropriate letters followed by [RET]. Once the desired operator is entered, the prompt for entering the second operand is displayed. Enter the second operand in the same manner as the first operand. If the data type entered is an L, enter the string LITERAL (text) you wish compared to the other operand. This string can be up to 110 characters in length.

NOTE: Use L(iteral)s to compare null fields by typing an underscore as the value of the literal. For numeric comparisons, enter the number as the value of the literal.

If the data type entered is F, enter the FORMULA whose resultant will be compared to the other operand (see Formula Structures under Special Features in this section). If the data type entered is P, enter the string literal (text) which will be used to PROMPT the operator

when executing the report. User Prompts can be identified on the Record Selection screen as those literals beginning with a “?”. (TEAM-UP inserts the question mark to differentiate between formulas, literals and prompts.)

The values resulting from the operator’s response to the prompt can be printed anywhere in the report. The form of the referenced value is the letter “P” followed by # . . . for strictly numeric values or ! . . . for alphanumeric values.

NOTE: Any formatted item (date, time, phone, etc.) is considered an alphanumeric value because the numeric data contains imbedded characters (1, :, -).

The # or ! symbol is followed by a numbered position (1 through 18) that the prompt occupies on the screen. The naming of these prompts is consistent with the layout of the record selection screen: left side (first operand), right side (second operand) and nine possible logic entries (2x 9 = 18). The number is determined by counting from top to bottom and left to right for each prompt. As a result, the value of the prompt can be used anywhere in the structure of the report and represented as a “formula” for computation or for printing.

If the data type entered is a V, the system will prompt for the starting location for the comparison data within the string memory VARIABLE. A second prompt will ask for the length of the data at that SMV location.

EXAMPLE: If SMV(1,8) contains a pre-determined date for processing reports listed on a menu, then record selection criteria in each report dependent upon this date would have an automatic variable entry for processing simply by virtue of the operator’s report choice. The record selection would be made automatic without intervention or prompting at the time of report execution, allowing multiple report executions to occur without being prompted for the date.

Change Selection Criteria

If you select C for change, the first prompt requires identification of the condition being changed. Press [RET] to choose the default or enter the number of the condition you wish to change and press [RET]. The Change process is very similar to the Add process with the exception that the current values are shown after each prompt. Press [RET] to leave the current value unchanged. To change the value, over-type the displayed value and press [RET]. Use the [BKSPCE] key to erase unwanted data.

Delete Selection Criteria

If you select D for delete, the system prompts for the number of the condition to be deleted. Enter the number followed by [RET] to delete the condition.

Multiple selection Criteria

The following describes the way selection criteria are evaluated. The Reporter looks at each record and tests it against the selection criteria in order to decide which records will be included in the report.

Selection Criteria	Test Results
1 o r 2	If either of these conditions is true, record is selected.
1 and 2	Both conditions must be true for the record to be selected.
1 OR 2 AND 3	1 =(true), 2 =(false), 3 =(true); then record is selected. 1 =(false), 2 =(true), 3 =(true); then record is selected. 1 =(true), 2 =(true), 3 =(false); record NOT selected.
(1 & 2) ! 3	1 =(true), 2 =(true), 3 =(false); then record is selected. 1 =(false), 2 =(false), 3 =(true); then record is selected.
(1 ! 2) & 3	1 =(true), 2 =(true), 3 =(false); then record is NOT selected.

(The NOT (~) command is available for building selection criteria logic.)

Edit Selection Criteria

You can edit the Logic line, as it appears at the top of the screen, for the selection criteria defined. By using the [INS] key, the Logic line is brought to the lower portion of the screen for editing.

NOTE: The numbered criteria from 1 to 9 can be entered in any order. The logic used to determine record selection is based purely on the numbered items found in the Logic line. In fact, all nine criteria can contain some logical comparison. Yet, if not included in the logic line, that criteria item will NOT be considered when record selection is made.

The arrow keys can be used to move back and forth across the line. Over-type to change a logical operator. For additional editing, the [INS], [DEL] and [DEL EOL] (^Z) keys are also functional. You can insert parenthesis around conditions to change the priority of evaluation and to impose a specific order for selection. All operations contained within parenthesis are performed first; then operations not within parenthesis are performed to arrive at a final result.

To exit the edit Logic line session, press the [RET] key to record any changes and the new edited version of the logic line appears at the top of the screen. If you do not wish to save your changes, exit by pressing [ESC].

3- Edit Relationships

This selection allows you to change application relationships. Application relationships exist when data is “pulled” from another application and included with the main application data for which the report is written. Changes in an application’s structure from time to time may dictate this type of alteration.

REMOTE	Rel	Type	SOURCE
1- RESULTS. TASK#	2		PROJSTAT. TASK#
2- ASSTN. TASK#	2		PROJSTAT. TASK#
3- HOLD. TASK#	0		PROJSTAT. TASK#

Edit which relation, [ESC] to exit: [1]

If relationships were previously defined, the process will present a screen showing a list of nine possible entries. It shows the related application whose data is being pulled and the key item used for record retrieval. The main application item used to link the applications is also displayed. In the center of the window is the RELATION TYPE (Rel Type) which establishes any conditions pertaining to the link.

Enter the relationship number that you wish to change. Prompts are presented for operator response and are explained in detail in this section under Establishing Relationships Between Applications.

Print Description

This is the heart of TEAM-UP'S Report Data manager. Descriptions of report content and format are developed within this section.

Reports are composed of blocks of information. You may use these blocks in any combination you choose. Think of each block as a separate area that when pasted together makes a report page. Each block may be as wide as 250 columns and have-up to 99-lines. Those blocks which are utilized and contain defined data are presented upon report generation. If a block contains no data, it is not printed.

The seven Report Data blocks are as follows:

- | | |
|-----------------------------------|------------------|
| (1) Report Header | (2) Page Header |
| (3) Sub-Report Breakpoint Header | (4) Report Body |
| (5) Sub-Report Breakpoint Summary | (6) Page Summary |
| (7) Report Summary | |

The Sub-Report areas (3 and 5), in combination with the Report Body, are explained in more detail under Sub-Report Description.

You may use these blocks in various combinations. A simple report may **Only Contain** a Report Header block, followed by a Report Body block. On the other hand, complex reports

may be composed of a number of different Header blocks, a Report Body block and one or more Summary blocks.

The pre-defined processing and print order of each Report block is as seen above. The only exception involves the combination of Sub-Report Breakpoint Header, Report Body and the Sub-Report Breakpoint Summary. If a block is not used, Report Data simply processes the next block that contains defined data.

Printing Scenario

The Report Data module checks for selection criteria and required sorts upon report generation. Once these processes are completed the actual printing or writing to a file begins.

- (1) . . . If a Report Header is defined, it is presented.

NOTE: This block can be created on the first page of the report or as a banner on every page.

- (2) . . . If a Page Header is defined, it is presented at the top of every page in the report.

- (3) . . . If a Sub-Report Breakpoint(s) is defined, all Sub-Report Breakpoint Headers will be presented on the first pass only. On subsequent changes in the breakpoint values, only the Breakpoint Header associated with the changed Breakpoint value will be presented, allowing multiple levels of “Sub- Reports” or subtotal group headers to be presented.

- (4) . . . If a Report Body is defined, then the body block will be presented for each record horn the application that is selected for processing.

- (5) . . . If a Sub-Report Breakpoint Summary is defined, only the Breakpoint Summary associated with a changed Breakpoint value will be presented to allow multiple levels of “Sub-Reports” or subtotal groups to be presented.

EXAMPLE: Blocks defined for (3), (4) and (5) above will continue to be processed until a new page is sensed. For example, if a department sales report is prepared to show each department and its assigned sales personnel, the department number could be defined as the breakpoint value. Whenever the department number changes (as records are processed) a “break” occurs in the value. The break is sensed by the reporter and the appropriate Breakpoint Summary is presented. When the Summary block is complete, the Breakpoint Header for the record which caused the break will be presented. Then, all Body blocks (each salesman) for the new department would be presented:

```

*****
...      Report Header      ...
...      Page Header       ...
Dept 1   ... Breakpoint Header ...
Slsm 1   ... Body          ...
Slsm 2   ... Body          ...
Slsm 3   ... Body          ...
Dept 1   ... Breakpoint Summary ...
Dept 2   ... Breakpoint Header ...
Slsm 4   ... Body          ...
Slsm 5   ... Body          ...
Slsm 6   ... Body          ...
Dept 2   ... Breakpoint Summary ...
*****

```

(6) . . . If a Page Summary is defined and the report generator senses the end of the available print space (minus the amount of data contained in the Page Summary block), then the Page Summary block will be presented before moving to the next page of output.

(7).** If a Report Summary is defined and all records selected for processing are read, the Report Summary block will be presented before ending the report.

NOTE: If NO Page Summary block is defined, the Report Summary will be presented immediately following the last Body or Breakpoint Summary block processed. If a Page Summary exists, then the Report Summary will be presented on the nextfile page.

```

Application: APP          REPORT BOOY          Report: REPORT NAME
-----|0-----20-----30-----40-----50-----60-----70-----
*
|
|
5
|

10
Enter desired process:

Line number . . . . . { 0 }
Starting character position . { 0 }
Data type . . . . . [ ]

```

A=Add, C= Change, D=Delete, K= Copy, [ESC]=exit

Editing Print Description

Enter the editing mode by selecting Report header, Page header, Report body, etc. You will be presented with a grid showing 10 lines and 76 columns where data can be defined. This is not the limit to the block size. You may move from item to item and scroll the block right, left, down or up as needed:

Key	Movement
[- >]	Moves to next item
[< -]	Moves to preceding item
[R]	Scrolls right 40 columns
[L]	Scrolls left 40 columns
[PG DN]	Scrolls block down 5 lines
[PG UP]	Scrolls block up 5 lines

The cursor is presented following the prompt:

* Enter desired process:

The possible responses are found in the lower left of your screen:

A = Add to add something to the screen
C = Change . . . to change something already defined on the screen
D = Delete . . . to delete something seen on the screen
K = copy to copy an existing value seen on the screen to another location
on the screen
[ESC]=Exit . . . end the processing of this block and return to the Design Menu.

Enter one of these responses and the system will provide the necessary prompting to allow you to direct various data to the screen. Default values are given within the brackets. These values can be accepted by pressing [RET]. Enter a different value by over-typing the default selection and pressing [RET]. Use the [BKSPCE] key to correct entries while the cursor is still located between the brackets. Once you move on to the next prompt, you cannot move back to the previous prompt. Use the [ESC] key to cancel the operation and start again.

Adding, Changing and Copying Block Data

Information of various data types may be located anywhere within a block. Placement of data consists of choosing the desired operation: Add, Change or Copy.

Add is chosen by depressing the letter “A” (no [RET] needed) and is used to place a new item on the screen. Change is chosen by depressing the letter “C” (no [RET] needed) and is used to alter an existing screen value by changing the [default] values. These values are displayed in sequence by pressing the [RET] key. Copy is chosen by depressing the letter “K” (no [RET] needed) and is used to duplicate the existing highlighted value. Simply change the line number and/or starting character position and any other values as necessary.

Once a process has been chosen, the location within the block is required:

* Select the line number within that block where you wish the data to appear

The location is not critical. Screen data can be moved to any location that is visually acceptable. Use the grid to estimate the proper position. Refer to the Special Features part

of this section for specific instructions. If you place data on line 3 and line 5 of a block, when the block is printed, line 1 and 2 will be blank, line 3 will contain data, line 4 will be blank and line 5 will contain data.

Remember, when a block is printed, the report generator looks for the last line of the block that contains data and prints everything contained in the block from line one to that last line. Also, note that the block will print in the designated printing order--report header, page header, body, etc.

* Select the Starting Character Position for the data

In most cases, this corresponds to the column number of your printer. If your printer prints an 80 column print line and you choose a Starting Character Position of 40, then the data will start in approximately the middle of your page. If the Starting Character Position exceeds the width of the print line defined, the data will wrap to the next line.

Data items can be overlapped to provide the suppression of trailing spaces following an item's data. For example, visualize names as separate items. The last name item must overlap the first name item (from right to left) so that the first name is printed for only the length of the data present in the first name item.

EXAMPLE: To print the first name and last name overlapped and including a "blank" as a separator:

- position First_name in column 1
- position a literal blank in column 2
- position Last_name in column 3

On the screen it will look like this:

F LLLLLLLLLLLLLLLLL

The letter "F" is the first letter of the item First_name, the blank is in position 2 and the letter "L" is the first letter of the item Last_name. As a result, rather than defining the items separately and according to their individual item lengths,

FFFFFFFFFFFFFF LLLLLLLLLLLLLLLLL

and seeing the printing of the name as,

John Jones

it would appear as,

John Jones

This technique is useful when generating a report (exporting) to an ASCII file. Not only can the trailing spaces of each item be trimmed to conserve disk space, but any delimiters required by the receiving software can be inserted and overlapped just as the literal space was used in the above example.

After deciding where the data is to be placed in the block, a choice must be made as to data type:

* Identify data type

VARIOUS DATA TYPES:

L = Literal: Literals are simply alphanumeric characters. For example, a heading within the Report Header may consist of a literal string of characters: CUSTOMER OPEN ORDER LISTING.

E = Data value: Data values are application items that are stored in one of the applications included in the report. For example ORDER. Customer is the customer's name on the order record.

If "E" is selected, you will be prompted to:

* Enter APPLICATION. Item_name -

This is followed by the name of the last application referenced during this report definition process:

* **ORDER.**

Type the item's name or use the "Pull Down" feature by pressing the [HLP] key. The Pull Down feature will function whenever the system prompts you for input of an item name.

The display characteristics of the type "E" data value areas follows:

- An alphanumeric item will be represented by the first letter contained in the item. This letter will completely fill the space allocated on the screen for that item.
- A numeric item will display as a string of 9's. If precision decimal positions are used, the decimal will be seen. If the money type is used, the \$ sign displays.

A = Auto Increment: An Auto Increment is a numeric value. It has an Initial Value and an amount to be Incremented or added on, after each use. It is most often used for page or line numbering. For example, if an auto increment cell is found in the Page Header, it will be incremented each time the Page Header block is processed. If it is found in the Report Body, it will be incremented for each record selected for processing.

D = Date: This_data type will produce the current System Date in its defined position.

F = Formula Formulas are the results of arithmetical operations of which only the resulting value is printed. They can be expressions that are evaluated to produce a specific result or conditioned by the familiar “IF” statement so alternate output data can be generated in the same location of the block. Report Data allows formulas so data can be manipulated as records are being processed for printing, thus reducing the amount of data that must be stored in a record. Formulas are very similar to numeric expressions in the Procedural Language.

Rules of Thumb for Creating Formulas

A formula statement can be up to 110 characters in length. A formula statement may NOT end in a semicolon. You may use the assignment operator (:=) if you wish to print and/or temporarily store the result of the formula for subsequent calculations or future printing.

Formulas can be located in the same line number and character position in a block. They will be processed in the order in which they were added to the block, i.e. from the top of the block (as they were entered) from left to right and from top to bottom. This is particularly useful if you want different output to be presented in the same location based on an “IF” condition, e.g. dunning messages on invoices for 30, 60 and 90 days would be different but placed in the same relative position in the block.

The formula can be assigned a Print Attribute of” 12” (hidden) to prevent the results from being seen when the block is presented.

Formula Types

There are two different types of formulas that can be used throughout Report Data: numeric formulas and text formulas.

Numeric formulas evaluate to produce a number and can contain any of the following:

- * Numeric data items; types 2, 3, 6 and 7
- * Constants; no commas or \$ signs
- * Operators; * / + -
- * Parentheses; up to 50 levels of nesting
- * Memory Variables; %0 to %29 (See Memory Variables this section)
- * Date functions that evaluate to a number (See Date Functions this section)
- * User prompts defined as (P#) numeric (See this section, Record Selection, User Prompts)
- * String Memory Variables defined as SMV(x, y) or SMV#(x, y) (See this section, Using the SMV)

Text formulas evaluate to produce literal strings and can contain any of the following:

- * Date functions that evaluate to strings (See this section, Date Functions)

- * User prompts defined as (P!) alphanumeric (See this section, Record Selection, User Prompts)
- * String Memory Variables defined as SMY! (x,y) (See this section, Using the SMV)

NOTE: The user is cautioned to pay strict attention to how the various functions are combined so that numeric formulas always contain expressions that evaluate to numeric values and text formulas contain only expressions that evaluate to literal strings.

Special Formula Features

The “IF” conditional formula is of the IF THEN ELSE format. You may attach up to 255 “IF THEN ELSE” statements in the same character location. Only 110 characters are allowed, but individual formulas can be “stacked” on top of each other. The processing priority is first entered, first served.

Formulas may contain logical operator. The use of the AND, OR and NOT can be very useful within a formula. The form must be abbreviated (to conserve space) as follows:

Operator	Symbol to Use
AND	&
OR	!
NOT	~ (tilde)

The test for NO data within an application item or the Null condition is another valuable feature. The formula format is identical to that of the Procedural Language:

* If Null(Apname.Iname) then

Blocks may be exited from anywhere within the block. This is accomplished by conditioning the Exit command:

* If (condition) then Exit

If this test is true, the block will not process further data, from the location of the Exit command to the end of the block.

String Memory Variables (SMV) are usable within the Reporter. The function allows the retrieval of data FROM the SMV and the storing of formula and assignment (:=) results INTO the SMV.

In order for the Reporter to properly handle the characteristics of a given item (i.e., numeric/alphanumeric) and treat it correctly, an additional symbol is added to its form. The “#” sign indicates numeric data and the “!” point indicates alphanumeric data. If neither symbol is used, the contents referenced is assumed numeric. The formula would look something like this:

```
%5 := SMV#(3,4) * Order.Qty
If SMV!(x,y) = 'Paid' then . . .
If Order.Stat = 'Cancel' then SMV(12,10) := SMV(12,10) + Order. Amount
```

```
FORMULA      %3 := Order.Qty*1.5
EXAMPLES:    (Order.Cost +100) / Cust.Num_itms
              (Order.No + %2) * (Cust.No + %1)
              p! 1 <--- prints the contents of first user prompt found on the Record
              Selection screen . . . possibly the start date of the report.
              If Order.Stat = 'Cancel' then 'THIS ORDER WAS CANCELED:'
                  . . . this would print in columns 1-24 and order. Can_date
                  . . . would be defined to start printing in position 26.
              If Null(Order.Phone) then 'NO PHONE!'
              If %A >= 30 & %A < 60 then Cntrl.Message1 Else
              If %A >= 60 & %A <90 then Cntrl.Message2 Else
              If %A >= 90 & %A , 120 then Cntrl.Message3
```

When a formula is entered, the system checks for errors. If an error is detected, the cursor will be placed over the error and an appropriate error message will be displayed. Editing functions such as [DEL] and [INS] are active for changing or correcting formulas.

* Printer Attribute; This defines the manner in which your printer will format this particular data. Enter the corresponding printer attribute number from the selection at the bottom of the screen.

NOTE: Printer attributes 1 through 7 must be defined in INSTEAM, and your printer must support each attribute used.

Attribute numbers 8 to 11 are for Custom Print Attributes. also are also defined in INSTEAM and are concerned with special custom attributes supported by your printer.

Attribute number 12, Hidden, prohibits data visibility when the block is processed.

* Print Format; This selection pertains to the way in which items appear within the data area. Special TEAM-UP Print Formats will give reports a polished look. The formats available are as follows:

FOR NUMERIC DATA TYPES:

G= General; This format prints the data exactly as it is stored. This is the way you see the data in the Access Data section of Data Manager.

comma; This format prints numeric values with commas inserted. For example, a value of 123456 prints as 123,456.

\$=Money This format Places the designated money Character set by INSTEAM to the far left of the item data area and places blanks between the money character and the first whole number. For example, a value of 144.04 with an item length often is seen as: \$ 144.04.

F=Float \$; This format places the designated money chracter set by INSTEAM immediately preceding the first whole number and inserts the designated thousand separator. For example, a value of 1144.04 with an item length of eleven is seen as: \$1,144.04.

***=Pad \$: This** format is identical to \$=Money except that the spaces between the money character and the first whole number would be filled with the asterisks. This is what is commonly known as check protection. For example, a value of 144.04 with a field length of nine, prints as: \$**144.04.

% = Percent This format multiplies the numeric item by 100 and places the percent (%) sign to the right. For example, a value of 0.05 prints as 5% and a value of 0.0006 prints as 0.06%.

FOR ALPHANUMERIC DATA TYPES:

L=Left justified; Left Justified is the normal default value. Data is presented exactly as the item is placed in the block.

C =Center justified; The data is centered in its designated area. For example, if an item has a starting character position of one, is 40 characters in length and the data stored in the item consists of 20 characters, then there would be 10 characters to the left and 10 characters to the right of the 20 characters of data when presented.

R= Right justified; The last character of an item's data is placed to the far right of the item's designated character position in the block.

N= Not Justified; Data may be placed randomly within the data block. The report generator will not alter the designer's placement of data.

* **Field Length;** When specifying a data type of "E, F or V", the system will display the default value length of an item and prompt for a response. Press [RET] to define the entire length of an item. To change the displayed length, type a different value, then [RET].

* **Precision;** For type "E and F" numeric items, an additional prompt will ask for decimal precision. Whole numbers can be reported with precision and decimal numbers can be presented without their decimal values.

Questions at Conclusion of Block

At the conclusion of data entry and after depressing the [ESC] key to exit the block definition, you are asked several questions that describe the manner in which you want the block to be processed.

* Enter printer attribute for this Block

The numbered options (from 1 to 11) associated with this step are identical to the previously discussed options for the Print Attribute of a block item. The number selected determines the code sent to your printer just before this block is to be printed. The number is canceled after the block is printed. Print attributes of data items within the block may override this attribute or work in conjunction with it, depending on which attribute you use and how your printer handles these attributes. Consult your printer manual to gain an understanding of how various attributes interact.

* Should blank data lines be printed

The key word in this prompt is data. If any block line contains only null data items, the print line will not be processed. This eliminates blank lines in the output.

EXAMPLE If you defined three lines to be printed in the block--line 1 = Name, line 2 = Address, line 3 = City--and a record is selected that has no data entered for Address, it can print in one of two ways:

Response [Y] gives: Name

 City

Response [N] gives: Name

 City

* Enter spacing for this Block

Your choices are:

1 =Single 2= Double 3 =Triple 4= Quadruple

The actual spacing chosen will NOT be seen on the screen while defining the block. The numbers mean that 1 times, 2 times, 3 times or 4 times the number of lines used on the screen during the design process will be used during printing.

* Enter number of blank lines to FOLLOW this block

After a block has finished printing, you may print 0 to 255 blank lines to provide spacing between the blocks and to add impact to each section of the report. A zero will begin the

next processed block on the line immediately following the last line of print in the block now being processed. The entry of a “-” (dash) instructs the reporter not to issue a carriage return/line feed following the completion of the block. The next block will be processed to print on the same line as the end of the previous block.

ALTERNATE PROMPT. .. Summary blocks only:

* Enter number of blank lines to PRECEDE this block

As Summary blocks print at the end of breakpoints, pages, reports, etc., the spacing for these blocks precedes the block processing. When designing your reports, take into consideration that the lines of the last block processed will print; then the lines of the Summary block will print and can be preceded by blank lines if necessary.

4- Report Header

The Report Header is the first block that is printed in a report. We recommend that you define the report title line as a literal character string, although any type of data may be placed in this block. After entering the data to be processed and answering the prompts previously discussed under Questions at Conclusion of Block, you are prompted for:

* Where should the report header be printed?

Options at the bottom of the page indicate:

T= Top of every page

F= First page of report only

NOTE: If option “F” is chosen, the Report Header block will be processed ONLY at the beginning of the report.

5- Page Header

The Page Header block follows the Report Header block that prints on the first page. The Page Header will be printed every time a new page is started as defined by the description of page size (see this section, Miscellaneous Parameters, Set Page/Label Size).

6- Report Body

The Report Body block prints once for each record selected for processing as defined by the report Record Selection criteria (Design Menu choice #2). If the Body block contains three lines of data with one blank line following the block (see Questions at Conclusion of Block) and only two records meet the selection criteria, then your report would look like this:

Report Header

(Body)	xxxxxxxxxxxxxxxxxx
	xxxxxxxxxxxxxxxxxx
i	xxxxxxxxxxxxxxxxxx
(Body)	xxxxxxxxxxxxxxxxxx
	xxxxxxxxxxxxxxxxxx
	xxxxxxxxxxxxxxxxxx

After entering the data to be processed in this block and answering the prompts previously discussed under Questions at Conclusion of Block, you are prompted for:

* Should this block be printed at the top of a page

This question allows each record processed to be printed at the top of a new page by entering 'Y', for yes, at the prompt. You may also enter a number between 1 and 9. This will cause the system to check for the required number of lines remaining on the page to group your data blocks together.

Summary Block Capabilities

Summary blocks have special capabilities not available in other blocks. They are unique in that, when an application item is defined in the block, the summary will perform the appropriate calculations based on which summary block contains the item. For example, if an item is defined in the Page Summary block, the value of the item will be considered for each record chosen for processing and the proper summary results will be presented when the Page Summary is processed. If the item is defined in the Report Summary area, then the summary results would be accumulated and presented when the Report Summary block is processed.

The results of some predefined types of calculations can be defined and performed as each record is processed. The available arithmetical computations are:

* A =Average	* C= Count	* S =Summation
* M=Min (minimum)	* X =Max (maximum)	* D =Data

Numeric application data items can be averaged, counted or summed They can report minimum or maximum values. Count and Data functions may be performed on any type of data item.

NOTE: The computations are performed on the specified data item each time a record is processed REGARDLESS OF WHETHER THE SPECIFIED ITEM IS PRINTED IN THE REPORT BODY BLOCK.

If an item is placed in the Summary block, but not in the Report Body block, the Summary block computation will contain the results of all records processed. The number of records included in the calculation depends on which Summary block is used.

The Predefined Computations

Average; While adding or changing an item in a summary block, choose the letter A when prompted for what type of calculation. This causes the average value of the data contained in the specified application item to be printed when the summary block is processed. The Average is calculated based on each record processed. This prompt is returned if 'E' was entered at the prompt: Identify Data Type.

Count; While adding or changing an item in a summary block, choose the letter C when prompted for what type of calculation. This causes the Count to start at zero, increment by 1 for each occurrence of the specified application item and print the count when the summary block is processed.

Summation; While adding or changing an item in a summary block, choose the letter S when prompted for what type of calculation. This causes the Sum of the data contained in the specified application item to be printed when the summary block is processed. The Summation is calculated based on each record processed.

Minimum; While adding or changing an item in a summary block, choose the letter M when prompted for what type of calculation. This causes the smallest value of the data found in the specified application item to be printed when the summary block is processed. The Minimum is calculated based on each record processed.

Maximum; While adding or changing an item in a summary block, choose the letter X when prompted for what type of calculation. This causes the largest value of the data found in the specified application item to be printed when the summary block is processed. The Maximum is calculated based on each record processed.

Data ; While adding or changing an item in a summary block, choose the letter D when prompted for what type of calculation. This causes the value of the data contained in the specified application item to be printed when the summary block is processed AND IS THE VALUE OF THAT ITEM FROM THE LAST RECORD PROCESSED.

NOTE: *If Sub Report Summaries are involved, the D=Data type summary item is the data from the record processed prior to the breakpoint occurring (see later discussion on SUB REPORT DESCRIPTION, Sub report summary).*

7- Page Summary

The Page Summary block, if defined, is the last block to be printed on each page. If the block contains two lines, then the last two lines printed on each page would be those defined here. Use the page summary to include page numbers utilizing the auto increment data type. You may also position page totals into pre-defined areas of a pre-printed form such as an invoice. All totals, averages, etc., are calculated on a page-by-page basis. However, any type of data may be placed in the block.

Remember that TEAM-UP keeps track of the number of lines printed and knows when to stop to allow sufficient space at the bottom of the report to process the Page Summary.

8- Report Summary

The Report Summary is the last block processed for a report. It functions very much like the Page Summary block except that all totals, averages, etc., reflect every record processed during the entire report. If a Page Summary is defined, the Report Summary will be printed on the following page.

Sub Report Description

This part of TEAM-UP's Report Data Operations gives the user sophisticated reporting capabilities by allowing the report to be broken down into sub-parts that match the report order (Design menu selection #1). These sub-reports are controlled by naming the corresponding application item used in Report Order under the corresponding Sub report Breakpoint (Design menu selection #9). For each defined Sub report Breakpoint, you may have a corresponding Sub report Header and a Sub report Summary. You can use the Header, the Summary or both.

9- Sub Report Breakpoint

Subdivisions of a report are defined through sub report breakpoints. The function of adding, changing and deleting breakpoints is essentially the same process as Report Order. To Add or Change sub report breakpoints, name the item by typing it or pulling from the help list. Tell TEAM-UP how many characters of the item are required to detect a "break" or change in the item's value. To Delete a breakpoint item indicate its number from 1 to 9. In most cases, the selections in Report Order and Sub report Breakpoint are exactly the same, as it is customary to break reports into parts (or sub+totals) in the same order in which they are sorted. After establishing the Sub report Breakpoints, you will be able to design a Sub report Header and a Sub report Summary for each breakpoint defined.

10- Sub Report Header

Before you enter the Sub report Header block, you are presented with a screen that displays the breakpoints that were defined in the Sub report Breakpoint selection #9. You may have a Sub report Header for each of these breakpoints; however, you need not have any at all.

To choose a header's breakpoint, type the appropriate number of that item and press [RET]. The block grid, which is identical to all previously discussed blocks, shows the possible row and column positions for data as well as the Add, Change, Delete and Copy options. The header block prints each time the defined Sub report Breakpoint changes. After entering the pertinent data and answering the prompts previously discussed under Questions at Conclusion of Block, you are prompted for

* Should this block be printed at the top of a page

This question allows the Sub report Header block to be printed at the top of a new page EACH TIME THE DESIGNATED BREAKPOINT ITEM DATA CHANGES. You may also enter a number between 1 and 9. This will cause the system to check the remaining printable lines on the page and group the data blocks accordingly.

11- Sub Report Summary

From the screen displaying the defined breakpoints (Design menu #9), choose the breakpoint to which this summary belongs. This block prints each time the breakpoint item data changes. Any type of data can be placed in this block. As this is a Summary block, data values can be averaged, summed, counted, etc. After entering the pertinent data and answering the prompts previously discussed under Questions at Conclusion of Block, you are prompted for;

* Should this summary be printed at the bottom of the page

Answering YES to this question will place this block's information at the bottom of the printed page, emulating the page summary function. Whenever this summary is printed, a page summary will not be printed on that page. This allows the printing of two different page summaries, depending on the placement of the report.

EXAMPLE: Application = SALES
Report Order = Region_number
Sub report Breakpoint = Region_number
Data = Region_name; CHICAGO & NEW YORK

The following takes place:

- * The Sub report Header prints when the first record containing CHICAGO is encountered.
- * Then, a Report Body block prints for each record where CHICAGO is the region.
- * when the first record containing NEW YORK is encountered, the Sub report Summary defined for Region_number (if there is one) will process. Upon its completion the Sub report Header for Region_number will print containing the data from the NEW YORK record which caused the "break" to occur in the breakpoint item.. .Region_number.

- * Then, a Report Body block prints for each record where NEW YORK is the region.
- * Etc.

Miscellaneous

This section contains a number of important Report Data capabilities of a general nature.

12- Change Report Name

Any report name may be changed by using the Change report name Design menu selection. Report names are limited to 16 characters in length (including blanks). Choose this selection and enter the new name at the prompt. Press the [ESC] key to abort your choice.

13- Change Report Description

The description of a report may be changed through this Design menu selection. Report descriptions consist of any ASCII character that can be typed and limited to 110 characters in length. Enter your new description at the prompt or press [ESC] to abort this menu choice.

14- Update Printed Record

This feature of the reporter allows application data items to be updated after a record has been processed during report generation.

The item to be updated may be in the main application OR IN A RELATED APPLICATION. The item may be updated with:

* literal string * another data item * formula * date * SMV value

Applications may be updated as the records are being reported. An example is updating an order application to prevent duplicated processing after an invoice has been printed. Up to nine (9) data items can be updated each time a record is processed. Updating can be controlled through formulas, if used.

NOTE: KEY ITEMS CANNOT BE NAMED AS AN ITEM TO UPDATE!

(A)dding, (C)hanging and (D)eleting is performed in an identical manner throughout the Report Data module. Press [ESC] to exit process.

15- Miscellaneous Parameters

This menu selection allows you to set special parameters for a report. These parameters include:

* security

- * Overall page and label size definitions
- * special pre-defined generation parameters
- * report generated processing prompts for the operator

1- Set Security

Each application created by TEAM-UP has security levels (0-9) for limiting the various functions performed against the application. Printing is an application function that can be limited based on the operator's security level. However, a user's security level must be equal to or greater than the application's Print security in order for the operator to print the report, either from the Access Data screen or the Reporter.

The Reporter can enforce security on a report in two different ways. The reporter can: (1) verify a number between 0 and 9 when prompted for Security level required to change this report and (2) verify a number between 0 and 9 when prompted for Security level required to generate this report. The change security level also applies to the right to delete a report.

A user's security level must first be equal to or greater than the application's functional PRINT security level to list the application's reports, AND second, be equal to or greater than the Report's Change or Generate security levels to operate within the Report Data module on the named application's reports. It is possible for two users to have access to an application's reports. However, based on their security levels, one user could be limited on which reports he could execute or change.

2- Set Page/Label Size

You may use Report Data to generate mailing Labels or regular printed reports. Your response to the prompt:

- * Will this report be generating labels

will determine whether you are queried for label or page parameters.

Page Parameters

- * Enter MAXIMUM # of lines that will fit on a page. . . [66]

The default is 66 lines; however, you can enter any number from 1 to 255. Adjust this number to fit any form you may be using.

- * Enter the desired number of lines to print per page . [60]

This number should always be less than or equal to the maximum # of lines per page above. The default is 60 lines. The difference between the maximum number of lines per page and this parameter will be divided in half to provide automatic top and bottom page margins. Adjust this number to your needs.

* Maximum line length of your printer [80]

This number should be less than or equal to your printer setup. When this length is reached, any characters remaining to be printed on the line are wrapped to the next line. The internal auto wrap feature forces a right margin when printing long text.

NOTE: IF THE NEXT PROMPT FOR THE NUMBER OF CHARCTERS IN THE LEFT MARGIN IS TO CONTAIN ANYTHING OTHER THAN A ZERO, THAT VALUE NEEDS TO BE ADDED TO THIS MAXIMUM LINE LENGTH TO PREVENT WORD WRAP.

* Enter the number of characters in the left margin . . [0]

The default setting is zero and causes the data to be printed exactly as placed in the blocks. Using a number greater than zero forces a left margin, offsetting the data in the blocks from left to right by that amount. Also, by using a number such as 10 and setting your printer maximum line length for 10 to 15 characters narrower than your paper, you can print data with right and left margins.

* Use Form feeds or Spacing to find top of form (F/S) .[S]

The default for this prompt is “S” for Spacing, which counts the number of lines processed per page and issues the appropriate number of lines to reach the top of the next page. IT IS RECOMMENDED THAT YOU USE THE DEFAULT UNLESS block printer attributes that cause various blocks to print in different numbers of lines per inch are being used. If the Form feed option is used, you will need to do a bit of experimenting. This option is provided for those with special printing requirements.

* Pause on page break (for single sheet report) [N]

The default for this prompt is “N” for No. This means that continuous forms are being used. Change this value to “Y” for individual form feed.

* Should form feed be sent at end of print. [Y]

The default for this prompt is “Y” for Yes and assumes continuous forms are being used and the paper advance is appropriate.

NOTE: The printing of labels usually does not require a form feed upon completion.

Label Parameters

When you respond with Y to the prompt:

* Will this report be generating labels

you are asked for a different set of parameters than when choosing N.

This option can be used to generate mailing labels. Multiple labels are permitted provided the characters-per-line limit of 255 is not exceeded. If the data on a line exceeds the length of the label, then the data is truncated. THE INTERNAL AUTO WRAP FEATURE IS NOT INVOKED.

Report Body blocks are generally used to produce labels. However, there are special provisions that allow combining Page reporting and Labels into one report.

* How many labels across each page [1]

This can be any number, but remember the 255 character limit mentioned above.

* How many lines from top of one label to top of next . [10]

This can be any number. If using continuous form, use a printer ruler to determine the correct number.

* How many characters wide is each label. [40]

This is the number of characters from the starting position of the first label to the starting position of the next label. Again, use your printer ruler to help determine the number of characters.

For example, if you have two labels as shown below:

X	Y
---	---

The number of characters starting at the X in the first label up to, but not including, the Y in the second label is used to determine the character width for each label.

* Which line of the label should text be started on .. [1]

This option eliminates the need for the Body block to be designed (or aligned) line by line relative to the position each printed label line. If the label size being used allows ten printed lines and only six lines are necessary, do not begin line definition on line 3 to center the label. Define all six lines and use this parameter to start printing on line 3--leaving lines 1 & 2 and 9 & 10 blank.

* Should blank lines in text to be printed [N]

The default is N for No. Using the default gives a neat, professional look to labels. It eliminates the printing of any lines which contain “blank” data and pulls up any following lines.

* Do you want to print on only part of the page [N]

The default is N for No and should be used if all the report does is print labels. If Y is chosen, the reporter visualizes the report as having Headers and/or Summaries as well as Labels-or data printed in the form of labels. The following description illustrates this choice:

- 1- The Sub report Breakpoint item is the Order_number.
- 2- The top part of the invoice is defined in the Sub report Breakpoint Header and will print at the top of new page when a new order number is read.

This would include sold_to and ship_to name & address, dates, customer_number order_number, invoice_number, what was ordered and the amounts with totals.

- 3- After the Sub report Breakpoint Header prints, the Body block would be processed.

Since our report is defined as generating labels, then the Body block is treated as labels.

- 4- Each record printed in the Body block is from another application that contains a single record for each serialized TEAM-UP system that is to be shipped with the order.

Each serial number shipped will print on the lower half of the invoice from left to right, top to bottom. Thus, allowing more items to print than if they were simply listed in a column.

* Should form feed be sent at end of print. [Y]

The default for this prompt is “Y” for Yes and assumes that a printer form advance is appropriate when the job is complete.

3- *Set Generate Parameters*

Defining report generation parameters from this selection allows an operator to bypass the generation prompts. Any or all of these parameters may be assigned an execution default value; i.e. a value that is preset during report design so prompting during report generation is not needed. When the default for a prompt is not changed and remains a dash [-], it causes that prompt to be displayed when the report is generated and will require a response from the operator.

During the design process, the prompts are as follows:

* Enter the drive for temporary sort files, if needed . [-]

Reports requiring a sort utilize a number of temporary files that are associated with the sort. By placing a drive designator in response to this prompt, you are assured that these files will be placed on a drive with sufficient space.

* Enter the destination of this Report (-, S, P,F). . . .[-]

The responses are: S = Screen P = Printer F = File

Selecting S or P will not require prompts other than those explained below. If the report is to be sent to a file, additional prompts will be presented:

* Enter the filename this report should be placed in. . []

The form used to type the filename should include the TEAM-UP drive letter if the desired drive is not the default drive. (EXAMPLE: A: Test.exp; an ASCII file named Test.exp will be exported from the TEAM-UP reporter to the A drive.)

NOTE: Data is NOT APPENDED to an existing file. the file is actually re-created and re-written each time.

HOWEVER, THIS IS ONLY TRUE WHEN THE FILENAME IS DESIGNATED DURING THIS DEFINE PROCESS. IF THE [] (NO FILE NAME GIVEN) REMAINS AS THE FILENAME, THE OPERATOR HAS THE DUTY TO NAME THE EXPORTED FILE WHICH CANNOT BE AN EXISTING FILE AND, THEREFORE, WILL PROTECT FILES FROM BEING DESTROYED.

SPECIAL NOTE: If a file name is given at this prompt, the only valid way to remove any future reference to the file is to respond with a dash (-) when asked for the file name. This will return the default value to the appropriate []. A SPACE CANNOT BE USED!

* Enclose non-numeric fields in quotes and insert a comma after all but the last field of a line (n/y).[Y]

This is equivalent to delimiting data. TEAM-UP provides an automatic division between data items as they are selectively reported.

EXAMPLE To export customer data from the CUSTOMER application, the items are defined as follows:

Define in	Item Name	Lgth.
Col 1 =	Customer_number ->	4
Col 2 =	Customer_name ->	12
Col 3 =	Customer_address ->	15
Col 4 =	Customer_balance ->	7

The first and subsequent data records are written to the exported ASCII file (delimited or “Y”) as follows:

1001, ”John Jones”, ”123 Main St”, 350.00, etc.

However, if the data needs to be delimited by a different method, then the report creator has to insert the needed “delimiters” during the definition of the appropriate block. Using the same application, let’s see how this works:

Col 1 = Customer_number
Col 2 = ':' ...a literal colon to separate data items
Col 3 = Customer_name
Col 4 = ':'
Col 5 = Customer_address
Col 6 = ':'
Col 7 = Customer_balance
Col 8 = '*' ...an asterisk to mark the end of a record

The data records are written to the exported ASCII file as follows:

1001:John Jones:123 Main St:350.00*

Finally, if delimiting is not requested OR designed, the exported record will look like this:

1001John Jones123 Main St350.00

To keep trailing blanks from being trimmed, DO NOT OVERLAP THEM! Like this:

Define in	Item Name	Lgth.
Col 1 =	Customer_number ->	4
Col 5 =	Customer_name ->	12
Col 17 =	Customer_address ->	15
Col 32 =	Customer_balance ->	7

Then the data records are written to the exported ASCII file as follows:

1001John Jones 123 Main St 350.00 <4> <12> <15> <7>

General Note

THE PROCESS OF WRITING A DOS FILE FROM THE REPORTER WILL TAKE ON THE FOLLOWING CHARACTERISTICS:

1. Each record written will end with a carriage return/line feed character.

2. The DOS end-of-file marker, “Z”, will represent.

* Should the generation of this report be abortable . . [Y]

If you choose Y (Yes), the operator can abort the report generation process by pressing the [ESC] key. If you choose N (No), the operator will NOT be able to abort the report generation process by pressing the [ESC] key.

NOTE: When using Update Printed Record (see this section, Design Menu option 14-Update Printed Record), your report should probably not be aborted.

O=None	1 =Underline	2=Italics	3 =Sub
4= Super script	5 =Expanded	6= Compressed	7=Bold
8-11 =Custom	12=Hidden		

* Enter the printer setup sequence for this report. . . [0]

This is a sequence sent to the printer before report generation begins. It will remove the necessity to define the printer setup sequence for each individual item or an entire block. If the report needs to be totally compressed, indicate here and the entire report will be printed in compressed mode.

Enter the number corresponding to the desired attribute as defined in INSTEAM.

* Negative number display: 0 = -NN, 1 = NN-, 2 = (NN)

The default print format for negative numbers is: -123.45. If, however, there is a need to print such numbers in the standard accounting form, then the answer [2] would allow the following print format: (123.45).

HINT: When defining the allocated block space (FIELD LENGth~) for negative items, provide one additional space to accommodate the minus sign and two additional spaces to accommodate the pareruhesis.

4- Set Start/Stop Key Prompts

* Utilize start and stop keys, if possible [Y]

The response to this prompt is Y or N. It is directly related to the Design Menu choice #1 - Report Order. When the first sort item under Report Order is a key, using the start and stop keys hastens the generation process. The range of records which will be processed based on the Record Selection Criteria will be narrowed.

EXAMPLE: The generation of a report from the application STATES has State as the first sort item. Using Florida as the start value and New York as the stop value causes all the records prior to Florida and after New York to be skipped. This means

that only the records from Florida up to and including New York have the selection criteria applied to them.

If possible, respond with Y (Yes) to speed up the generation process as described above. A response of N causes the selection criteria to be applied to each record in the application and no further questions will be presented for response at this prompt. If the decision is made to utilize Start and Stop key values, you will be requested to respond to the following:

* Prompt for start key [Y]

If the answer is Yes, the operator will be requested to respond to a prompted message before report generation begins. The response can be any value typed or an SMV location.

* Message for the start key []

If no message is typed, then the system will provide its own message to the operator. However, if a special message is desired, type the request in your own words. If the answer is No:

* Default value for start key []

This value will appear as if a message was presented. It can be any value typed or an SMV location.

THE VALUE WILL ALREADY BE SET WITHIN THE REPORT DESIGN AND THE OPERATOR NEED NOT RESPOND TO ANY REQUEST.

* Prompt for stop key [Y]

If the answer is Yes, the operator, before report generation begins, will be requested to respond to a prompted message. The response can be any value typed, the word START to use the start key value or an SMV location:

* Message for the stop key []

If no message is typed, the system will provide its own message to the operator. However, if a special message is desired, type the request in your own words. If the answer is No:

* Default value for stop key []

This value will appear as if a message was presented. It can be any value typed, the word START to use the start key value or an SMV location.

THE VALUE WILL ALREADY BE SET WITHIN THE REPORT DESIGN AND THE OPERATOR NEED NOT RESPOND TO ANY REQUEST.

5 - E x i t

The Exit selection will allow you to return to the Design Menu.

Special Features

This section contains some of the Special Features mentioned in other areas of Report Data documentation.

Pull Down Items

There is NO need to memorize application item names when working in Report Generator. Whenever you need to enter an item name a “pull down” list of all the items in the main or related application is available.

To use the “pull down” list, position the cursor after the period following the application name and press the [HLP] key. When the items are displayed, pressing the [ARROW] or [TAB] keys moves the highlight from one item to another. Move the highlight over the desired item and press [RET] to select that item. To confirm your selection press [RET] again. Use the [ESC] key to cancel your selection.

User Prompts/Runtime Variables

In the Record Selection option of the Design Menu, you may enter messages that prompt the operator for a reply rather than entering a specific constant value for a test condition. The user’s response to this message is taken as the operand to use in performing the Record Selection, providing for variable input as opposed to built-in, fixed values. For more details, see Record Selection under the Design Menu.

Date Formulas & Functions

Dates are defined within TEAM-UP’s INSTEAM program. They can be either: mm/dd/yy or dd/mm/yy. The date references on the following pages indicate one of the forms specified above. What form you choose will not influence how you use the Date functions; TEAM-UP handles that internally.

A Formula is an expression that can be evaluated to achieve a specific result. Report Data allows formulas so your data can be manipulated as the data is being processed for printing. Text formulas evaluate to produce literal strings and can contain special date functions to produce specially formatted reports. Date functions are used for conversions of dates between their numeric form and their literal form. Their numeric value can be in either an application item or the system date (SDATE).

Special Date functions that return numeric values are:

DAYS(date)	DAYS('01/31/85') ---- >2588
DATE(numeric expression)	DATE('2588') --- > 01/31/85
DATE(DAYS(SDATE) + 10) --->	SDATE = 01/31/85 then DATE would equate to 02/10/85
DOW(date)	DOW('01/31/85') ----> Thursday
MONTH(date)	MONTH('01/31/85') ---> January
DAY(date)	DAY('01/31/85') -----> 31
YEAR(date)	YEAR('01/31/85') ----> 1985
RULE: If year > = 78, returns 19xx if year < 78, returns 20xx.	
MONTHN(date)	MONTHN('01/31/85') ----> 1
SYEAR(date)	SYEAR('01/31/85') ----> 85

Memory Variables

There are 30 numeric memory variables that may be used for each report. A memory variable is like a scratch pad used to store intermediate calculations during the running of a report. These variables are manipulated through the use of formulas and are identified by a % (percent) sign followed by a number from 0 to 29. Thus, the variables are %0, %1, . . . %29. These variables are available for use in any of the blocks, but are NOT STORED FROM ONE REPORT GENERATION PROCESS TO THE NEXT.

All Memory variables are initialized to zero at the start of the report generation process. You can manipulate these variables in a number of ways as your report processes. Use of a hidden print attribute will enable the formula and its results to be invisible. To print the contents of a variable, it must be defined in a formula and NOT hidden.

Establishing Relationships Between Applications

TEAM-UP's Report Data manager allows you to merge or join, data from up to 10 applications--the main application and nine related applications. Each report associated with an application can contain data from 10 different applications. The main application is the one under which you find the report listed.

Related applications are those that are brought into the report by establishing a "link" (common data item such as customer number, invoice number, etc.) from one application to a key item in another. During the report definition process, you will be prompted for an item name:

* Enter APPLICATION. Item_name - ORDER,

If the application name displayed is accurate, the item name can be typed or pulled down. However, if the data required is to come from some other application or from a different record in the same application, you may use the [BKSPCE] key to erase the displayed application name. Type the appropriate application name followed by a dot (period) and the item name

* Enter APPLICATION.Item name - CUSTOMER. ADDRESS

If data from a different record within the same application is needed, you can create another link to the main application, thus treating it as though it were a related application. Append an @ sign to the end of the application name to distinguish between different links (e.g. apname@, apname@1). This procedure can be used to create multiple links to any application accessed by the report. If the relationship between the two applications has NOT been established, you will be prompted for the relationship:

* Define Application Relations

Assume NO relationship has yet been established and that our applications are as follows. The ORDER application does not contain the customers address as stored data. It must *retrieve the* address data from the CUSTOMER application when printing invoices. The common “link” is the customer number. For this example, the screen display prompts are in small print and the responses are in BOLD print and underlined.

The prompts and responses are:

* Enter the application that CUSTOMER links to: ORDER

This is similar to the Access command within the Procedural Language.

* Enter item name from ORDER. Cust#

This is equivalent to the Keydata command within the Procedural Language. It is looking for the data from the main application that will be used to retrieve (link to) the CUSTOMER application.

Literals or SMV locations can be used as the KEYDATA. To specify a literal, enter it enclosed in single quotes where you would normally enter an item name. To specify an SMV location, enter SMV(N,N) at the prompt, where N is a number stating the offset or length. Although these data types do not come from an application, you must still specify a source application at the above prompt. Use the main application as the source.

The SMV() form of KEYDATA allows the user to do dynamic joins as the report is generated. Formulas elsewhere in the report can be setup to assign the needed data to the SMV location. Since Record Selection is the only report function performed before the link or join is done, this is the appropriate place for this action to occur. Add the formula as though it were selection criteria and remove its reference from the logic line.

* Enter KEY item name from CUSTOMER.Cust#

This is equivalent to the Key command within the Procedural Language. It is looking for the KEY Item in the CUSTOMER application that the Keydata is to match.

* Enter the type of relationship [0]

0 = 1 or more

1 = 0 or more

2 = only 1

3 = 0 or more w/null

(Add 4 for partial)

There are actually 8 different choices which can be made; 0 -3 and 4-7.

When processing related applications it is necessary to know under what conditions the related records will or will not be found. The response to this prompt will be

0 - if at least one or more related records will be found for each processed main application record.

If no record is found, the record from the source application will be included in the report.

1 -if none, one or more than one related record will be found for each processed main application record (also see #3 below).

If no record is found, a null record is supplied by the reporter.

2- if there will be only one related record found for each processed main application record.

If no record is found, a null record is supplied by the reporter.

3 -if none, one or more than one related record will be found for each processed main application record.

If no record is found, a null record is supplied by the reporter. If a record is found, all duplicates are read and included in the report. Once they are all located, one more null record is supplied by the reporter.

This type of relationship is helpful when Record Selection is being utilized to exclude certain records in the related application. If all related records are excluded, this also excludes the main record. If this is not desirable, you can use this relationship type to add a null record to the found records and then add selection criteria to insure that the null record is included in the report, thus ensuring that the main record will also be included.

EXAMPLE: Logic 1 ! 2

1 INVOICE.Printed NE Y 2 INVOICE.Inv# EQ -

Condition 1 excludes all printed invoices. Condition 2 includes invoices where the invoice number is null. The logic line (1 ! 2) provides for the inclusion of the recorded set if the invoice has not been printed or the invoice number is null.

Choices 4, 5, 6, & 7 indicate that the entire key item data may not match and that a partial key match is sufficient for record selection. This is what is meant by Add 4 for partial. It is the same as 0 -3, only the number four is added to 0, to 1, to 2 and to 3 for the partial key value to be acceptable.

Now the relationship between ORDER and CUSTOMER is fully established. Any future reference to the CUSTOMER application will NOT produce any additional prompts. Once the relationship has been set, enter the application name and item name at the required position.

To change established relationships, see the Design Menu choice #3, Edit Relationships.

Creating Reports for Applications in Use

Reports for inaccessible applications can be developed by following the instructions listed below:

1. Copy the application's .TPR file to a temporary application name using the COPY function. Throughout this procedure, the original application will be referred to as AP. 1 and the temporary application will be referred to as AP.2.
2. Design the new report in AP.2 using the instructions given in this reference section. Test the report's integrity by enlarging the application, adding data and running the report. The report is now ready when AP. 1 is available.
3. Use the COPY function to copy only the report.
4. Use the DOS COPY command to copy the new report into M. 1's report directory.
5. After copying the report back to AP. 1, use TEAMUP's RENAME function to rename AP. 1 to a temporary application name. The message 'WILL DELETE .TXR AND .TB0' will be displayed. Don't worry, these files will be re-generated when you evaluate later in this procedure.
6. Now that you have renamed the application, rename it back to the "original" AP. 1 application name. This will take care of the application names inside the new report.
7. Evaluate the new report and any batch and transaction PL's if they exist.
8. Use TEAM-UP's DELETE function to delete the AP.2 application.

New reports can be created for an application (apl) from an existing report from another application (ap2) by performing step 3 through 7 above.

Miscellaneous

Here are a few additional miscellaneous facts that can be helpful in Report Data

- * Consideration of the Start and Stop values of key items takes place before Record Selection.
- * Record selection process occurs before Sorting.
- * Making a change to an application in the Create/Change or Define portion of Data Manager necessitates an evaluation of all reports that access that application.
- * The maximum number of defined auto increment cells is 40 per report.
- * The maximum number of pre-set computations for all Summary blocks is 40 per report. For example, 2 in Breakpoint Summary, 5 computations in Page Summary and 1 in Report Summary, equals a total of 8 computations used. These computations consist of either a SUM, an AVERAGE, a MINIMUM or a MAXIMUM.

Glossary

APPLICATION A collection of work processes and data that combine to accomplish a specific group of tasks such as payroll or inventory control.

ASCENDING ORDER: Ordered from lowest to highest value. Numeric 0 to 9, and alphabetic A to Z.

ACCESS: The operation of seeking, reading and writing data from the disk.

ALPHA ITEM: A data item that may only contain characters A through Z.

ALPHANUMERIC ITEM: A data item that may contain any printable character.

ASCII: An acronym for American Standard Code for Information Interchange. This is the code used on all microcomputers.

ATTRIBUTE A descriptive characteristic assigned to a particular item. This characteristic controls how the item is displayed on the video monitor. Attributes can be reverse video underline, color, **etc.**

AUTOLOAD: The process of automatically placing the user in a preselected place within the TEAM-UP system at sign-on time.

BACKUP: The process of copying an application's files, etc., to another disk as insurance against possible failure **or loss of the original.**

BATCH PROCESSING: A technique by which large amounts of data can be processed. Usually used when a similar change must be made to many records, such as adding 10% to the retain value of inventory items.

BLOCK: A portion of a report.

BREAKPOINT: The point at which the sub-report data value changes. A breakpoint is said to have occurred when the contents of the breakpoint data item changes from one record to **the next.**

CALCULATE To perform a predefined arithmetic computation.

CHARACTER: A symbol that can be input from the keyboard. A character can be a letter, number, special symbol or blank space.

COLUMN: A number that indicates the starting horizontal position on either the video monitor or the printer. Columns increase from left to right, with one character occupying each column position.

COMMAND: An instruction given to the computer to carry out a specific function such as ^E to Enter a record.

COMMAND LANGUAGE: Same as Procedural Language. See PROCEDURAL LANGUAGE.

COMMAND LINE The first ten positions in the upper left hand corner of the Access Data screen.

COMMENT ITEM: Strings that are displayed on the screen only for the purpose of information. No data is stored in this type of item.

CONDITION A restriction or limitation that is applied to an operation such as selection of records.

CONSTANT: A value that does not change during an operation. Constants can be literal strings or numeric values.

CONTROL KEY: A key that when depressed in conjunction with another key that assigns a different function to the second key. The Control key is designated by ^. Access Data interprets ^E to mean Enter a record.

CTRL: Reference to the Control Key. See CONTROL KEY.

CURSOR: The visible marker on the video monitor that indicates the current position.

CURSOR ADDRESSING: A technique of moving the cursor to a specific point on the screen. There are two types of cursor addressing--direct and relative. Only terminals that use direct cursor addressing can run TEAM-UP.

CURSOR DRIVEN: The cursor controls the next place on the screen where the user can enter data.

COPY: To make an exact duplication of a file or application on a different disk drive.

DATA CASE Data can be written in capital letters or lowercase letters.

DATA FIELD: A grouping of related characters such as Name, Address, etc.

DATA FILE The file holds all the data entered for a given application. This file has the name of the application and the extension .TDR. Free record space in this file is kept track of and reused by TEAM-UP.

DATA ITEM: Has a name and data associated with its data field which is stored in a record of the data file.

DATA REDUNDANCY: A problem when for operational reasons, or to overcome DBMS deficiencies, data must be duplicated in two or more applications. TEAM-UP has the ability to selectively eliminate Data Redundancy. See NON-STORED DATA ITEM.

DBMS: The acronym for a Database Management System.

DECIMAL PLACE: The number of digits to the right of the decimal point. TEAM-UP allows a maximum of four decimal places.

DEFAULT: An option that was automatically assigned by TEAM-UP or previously assigned by an operator. This value can be left as is or changed.

DEFAULT DRIVE: The drive from which you executed the present program.

DELETE To remove a record that is stored in an application.

DELIMITER: A character used to set off or identify to the computer a specific value. Usually used to separate data fields in a report sent to a file which will be read by another program.

DESCENDING ORDER: Items ordered from highest to lowest value. Alphabetic items from Z to A, numeric items from 9 to 0.

DESIGN To lay out the format of an application in Create/Change.

DIF FILES: Data Interchange Format files; a standard file format which can be read and written by most spreadsheet programs. This format can also be read by the optional Import Data program.

DIRECTORY: The catalog of files kept by the operating system on the disk.

DISK BALANCING: Maintaining your disk in such a way that there is room to extend applications and have space for temporary files. It can also refer to moving files which have a high activity rate to different disks to improve performance.

DOS: An acronym for a Disk Operating System.

DRIVE: An indicator that tells the location of a particular file. The operating system drive tells the physical location of the drive to the computer. The drive indicator used in the TEAM-UP Path file is a logical indicator. The TEAM-UP Path file connects that drive indicator with a particular network server, disk drive and directory.

DYNAMIC: Subject to change at any time.

END OF FILE: EOF, a specific character that is written as the last character in a file to signify the end of data.

ENCRYPTION Changing the data in a file in such a way that it is no longer meaningful without reversing the process. This protects the data from being read at the operating system level.

ENTER: A function that takes the data written to the screen by the operator in Access Data and makes that data part of an application data file.

ESC: Symbol for the escape key.

ESCAPE KEY: The key TEAM-UP interprets as a “stop whatever is in progress” request.

EXPRESSION: Any valid combination of data items and/or constants to form a result.

EXTENSION: Refers to the three characters that follow the period in a file name. The extension, by convention, is used to signify the type of file.

EXTRACTED DATA: Data that is pulled from a related application.

FIELD: A subdivision of a record. The data associated with an item name. A stored or non-stored data item that can contain data values.

FIELD NAME: Same as item name.

FIELD TYPE: Same as item type.

FILE A collection of related data records stored together on the disk.

FILE MAINTENANCE: Work done on a file to keep it in usable condition. Maintenance can be enlarging a file, making backup copies, etc.

FILE NAME: The name assigned to a collection of related records. The file name has two parts. In TEAM-UP the first part is the application name with which the file is associated and the second part, the extension, signifies the type of file.

FIND: To locate a record/cords in an application that meet the stated conditions.

FORM FEED: A printer command that causes the printer to advance to the top of the next page.

FUNCTION: A particular process to be completed by the computer. Functions are automatically invoked in TEAM-UP.

FUNCTION LINE: See COMMAND LINE.

FULL ALPHA: Data item field must be completely full with only the characters A to Z.

FULL NUMERIC: Data item field must be completely fill with only numeric data.

FULL MONEY: Data item field must be completely full with only numeric characters and a \$ sign.

HOME POSITION: Upper left corner of the screen.

IMPORT: To move data into a TEAM-UP application from a foreign source file such as DIF files and ASCII files.

INDEX FILE TEAM-UP uses the Index file to rapidly find information in sorted order. This file is maintained automatically and dynamically with every change made in the data file.

ITEM: The elements that make up an application record. An Item has a name with which it is to be referred. It may or may not be associated with a data field. There are three types of items: comment items, stored data items and non-stored data items.

ITEM DATA: Same as field.

ITEM LENGTH: The maximum number of characters that the item field can hold. Item length is the number of underscores assigned in Create/Change.

ITEM NAME: The name associated with a particular item by which you identify that item in TEAM-UP.

ITEM TYPE: A characteristic that controls the kind of characters that can be placed in a field. There are seven different types of items in TEAM-UP.

INTERFACE The interaction between the user and the computer or between two computer programs.

KEY: Same as key item.

KEY ITEM: An application's Key Items are represented in the Index File, and thus a specific record can be found rapidly by the data contained within this item.

KEYSTROKE: Depressing a key on the keyboard; this initiates sending a unique code to the computer.

LITERAL: An expression that is to be taken at face value. A literal can be any sequence of alphanumeric characters contained within single quote (') marks.

LOGON To sign-on and gain access to TEAM-UP as a valid user.

LOGICAL RECORD: The occurrence in the data file that represents one specific representation of the data stored there.

MAINTAIN: See FILE MAINTENANCE.

MAINTENANCE FLAG: A flag set by TEAM-UP to ensure that certain operations are performed on an application before it is accessed.

MEMORY VARIABLE: A numeric variable to which any value can be assigned.

MENU: A list of options.

MENU-DRIVEN: A system whereby the user selects the process to be carried out by means of options.

MENU PATH: A TEAM-UP capability which allows experienced users to bypass the menus and go directly to the process they wish to perform.

MESSAGE LINE: The last line on the Access Data screen where messages are written.

MILITARY DATE: A date in the form: 11-NOV-95.

MONITOR: The video display. Also known as CRT.

MULTI-USER ENVIRONMENT: A system such as a Local Area Network in which more than one user can simultaneously access and change information in the same application. Special versions of TEAM-UP are available which operate in this environment and maintain data integrity at all times. Even though many users can be looking at the same record, no user will ever be able to change a record if it does NOT exist on the file exactly as it existed when it was originally displayed.

NON-STORED DATA ITEM: The data assigned by a Procedural Language program to a non-stored data item is displayed on the screen by Access Data, but it takes no space in the application data file. This concept allows applications to be created which limit data redundancy.

NULL: Empty. A data item that contains no data.

NUMERIC ITEM: An data item that can only contain numbers. Only numeric items can be used in computations.

ONELINER: Preselected data items that are written to the screen, one record per line, whenever an Access Data Find operation selected more than one record.

ON-LINE A transaction that is carried out in real-time by direct access to the data storage device. All entries to a file take place immediately. TEAM-UP is always on-line.

ONELINER TOTALS: The ability to sum numeric fields during a Find operation and display the total in Access Data. The operator dynamically specifies which fields on which to sum.

OPERAND: The data element in a statement.

OPERATOR: A symbol that expresses the relationship between two items. Operators are used in comparisons (e.g. c, >, =) and arithmetic computations.

OPERATING SYSTEM: The program that controls the hardware. TEAM-UP is a well behaved program that runs under the operating system.

OUTPUT: The moving of data from the computer to the screen or printer.

PARAMETER: A specific value that is assigned to a variable to allow an operator to direct the outcome of a predefined process.

PASSWORD: A specific sequence of eight or less characters that verifies the identity of a user.

PATH: The method of searching to locate a specific file on the disk.

PHONIC ENCODING: A method of encoding so that names that sound alike will be found with the same search.

PRECISION The number of places to the right of the decimal.

PRINT: To send output to the assigned output device.

PRINT QUEUE: A place set aside on the disk by the operating system to hold output sent to a printer for printing at a later time.

PRINTER CONFIGURATION See **TERMINAL**.

PROCEDURAL LANGUAGE The series of commands that are available to use for batch processing or interactive transaction processing of applications.

PROGRAM: An ordered series of instructions that direct the computer to perform as specific task.

PROMPT: A descriptive phrase displayed on the screen that tells the operator that the computer is awaiting a specific input.

QUERY: To extract specific information from a database by means of stating limiting conditions.

RECORD: One complete group of items from an application. This group is treated as a unit.

RELATIONAL DATABASE SYSTEM: A system in which data stored in different files can be linked to form a meaningful relationship. Data redundancy is avoided by the linking mechanism.

REPORT: A written output of data from one or more applications.

REINDEX: To build a new index file. This is required as a result of changing the **key** status of a item.

RENAME: To change the name of an application.

REORGANIZE To rearrange the data in an application data file after a change has been made in Create/Change.

RETURN KEY: Signals the computer that you are ready to proceed.

ROW. A horizontal division of the screen. Most screens have 24 or 25 rows where information can be displayed. Synonymous with line.

SECURITY LEVEL A number between 0 and 9 that is assigned to a user, to an application and to the functions performed against an application. These levels are compared to grant or deny access to various parts of the system.

SEARCH: To examine a series of records for those that meet the selection criteria.

SEARCH QUALIFIERS: The values entered in specific fields, against which records will be compared to limit the number of records found and displayed.

SELECTION CRITERIA: A logical statement that is used to limit the number of records.

SOURCE FILE: A program that is written in a computer language. It must be translated into another form before the computer can actually understand the commands.

STRING: A sequence of characters, usually enclosed in single quotations.

SUB-DIRECTORY: A directory that is below the root directory in a DOS directory structure. See your DOS manual for additional information.

SUB-REPORT: A small portion of the whole report that pertains to a particular section of information.

SYNTAX: The lexical order of a language. Similar to grammar.

SYSTEM MANAGER: The person responsible for the security provisions of TEAM-UP.

TEMPLATE: A mask that is placed over a data record to give it meaning and order.

TERMINAL CONFIGURATION: Setting up the TEAM-UP program so that it can correctly communicate with your particular computer or terminal.

TOGGLE: To switch between two or more states, e.g. the [INS] key switches between insert on and insert off.

TRANSACTION An event that causes some work to be performed and some change to be made to an application. The Access Data commands Enter, Update and Delete all cause transactions to occur against the application.

TRUNCATE To cut off data that will not fit in a particular field. All data is truncated from the right.

UPDATE: To change one or more values stored in a record.

USER ID NUMBER: A number assigned a user in System Security that will allow that user to uniquely stamp all records that he enters. This number is used to prevent one user from seeing another user's data records.

USERNAME: The name that uniquely identifies a TEAM-UP user and that user's authorization codes.

WILDCARD: Used in a search qualifier to indicate that any value should be accepted. Access Data treats a space as a wildcard.

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☐ Excellent ☐ Good ☐ Fair ☐ Poor

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☐ Not Applicable

☐ Used Often ☐ Used Rarely

.How Did You Receive Report?

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☐ Referred to you by someone else

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☐ No

.In Your Opinion, Is Anything Missing That Would Make This Report Better?

☐ Yes _____

.General Comments

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